

ID	Material	Description	Long Description	Commodity	Region
9916	1000021558	CALCIUM HYDROXIDE - LIME	CALCIUM HYDROXIDE (HYDRATED LIME) ADDITIVE DRILLING FLUID; DRY, FREE FLOWING FINE POWDER FORM CALCIUM HYDROXIDE, Ca(OH) <sub>2</sub> FOR TO CONTROL PH, CARBONATE, AND H <sub>2</sub> S CONTAMINATION. LIME IS ALSO A PRIMARY COMPONENT OF INVERT EMULSION MUDS, CALCIUM HYDROXIDE (HYDRATED LIME), 25 KG (55.1 LBS.) MULTI-WALLED PAPER BAG WITH INNER POLYETHYLENE LINER. SHIPMENT OF PRODUCTS MUST CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL, CALCIUM HYDROXIDE (Ca(OH) <sub>2</sub> ). HYDRATED LIME - TECHNICAL GRADE USED TO INCREASE THE PH AND TO PROVIDE CALCIUM IONS IN DRILLING AND COMPLETION FLUIDS TO MAINTAIN A BASIC PH. IT IS AN ESSENTIAL ADDITIVE USED AS A MEANS OF ADJUSTING THE ALKALINITY WHEN CARBONATE/CARBONATE AND H <sub>2</sub> S CONTAMINATIONS EXIST. IN ADDITION, LIME IS USED FOR MAINTAINING THE ALKALINITY OF OIL-BASED DRILLING FLUIDS TO ACTIVATE THE FATTY ACID BASED EMULSIFIERS AND OFFERS A DEGREE OF CORROSION PROTECTION. CHEMICAL AND PHYSICAL SPECIFICATIONS: WHITE POWDER CALCIUM HYDROXIDE (Ca(OH) <sub>2</sub> ): 90% WT. MINIMUM MOISTURE: 15%WT. MAXIMUM PH: 12.0 - 12.5. DI WATER: AT 68°F (20°C): 1.0-1.25. DI WATER: AT 68°F (20°C): 2.2. INSOLUBLE IMPURITIES IN 15% HYDROCHLORIC ACID: 0.2% WT. MAXIMUM MAGNESIUM AND ALKALI SALTS: 2.5% WT. MAXIMUM IRON CONTENT: 0.1% WT. MAXIMUM PASS THROUGH 75 µm SIEVE (DRY SCREEN): 100%. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, EXPIRATION DATE, SAP NUMBER AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS).	Chemicals	West Europe
9855	1000021671	ZINC OXIDE	ZINC OXIDE (ZNO) - H <sub>2</sub> S SCAVENGER ADDITIVE DRILLING FLUID; FINE POWDER FORM ZINC OXIDE (ZNO) FOR HYDROGEN SULFIDE SCAVENGER FOR DRILL PIPE CORROSION PROTECTION. INORGANIC COMPOUND OF ZINC OXIDE, 25 KG (55.1 LBS.) MULTI-WALLED PAPER BAG. SHIPMENTS SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. ZINC OXIDE H <sub>2</sub> S SCAVENGER. AN INORGANIC COMPOUND ZNO, A PURE WHITE VERY FINE POWDER THAT IS INSOLUBLE IN WATER AND USED AS A HYDROGEN SULFIDE (H <sub>2</sub> S) SCAVENGER FOR DRILL PIPE CORROSION PROTECTION IN FRESH WATER OR BRINE DRILLING AND COMPLETION FLUIDS. THE PRODUCT NORMALLY CONSISTS OF AGGLOMERATED ZINC OXIDE PARTICLES WITH AN AVERAGE SIZE OF 0.1 TO A FEW MICROMETERS. CHEMICAL AND PHYSICAL SPECIFICATIONS: VERY FINE PARTICLE SIZE ZNO IS REQUIRED FOR FAST EFFICIENT H <sub>2</sub> S SCAVENGING. PURITY: 90%WT. MINIMUM SPECIFIC GRAVITY @ 77°F (25°C): 5.6. PARTICLE SIZE DISTRIBUTION (D50) LESS THAN 2 MICRONS BULK DENSITY: 5.6 (10/73) (2027 KG/M <sup>3</sup> ) SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, EXPIRATION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS).	Chemicals	West Europe
9802	100002134	OIL SOLUBLE CORROSION INHIBITOR	DRILLING FLUID CORROSION INHIBITOR ADDITIVE DRILLING FLUID; LIQUID FORM, CORROSION INHIBITOR, FOR USED TO ALLEVIATE DRILLING FLUIDS CORROSION, LIQUID AMINE, 55 GAL (208 LITER) DRUM SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. DRILLING FLUID CORROSION INHIBITOR: CATIONIC FILMING POLYMER. A BLEND OF AMINES, DIMETHYLAMINE AND DIMETHYLAMINE SULFATE, SOLUBLE IN OIL AND RESPONSIBLE IN WATER USED TO ALLEVIATE DRILLING FLUID CORROSION. ADDITIVE COATS THE METAL SURFACE WITH A PASSIVATION LAYER TO HELP PROTECT IT FROM HYDROGEN SULFIDE, CARBON DIOXIDE, AND OXYGEN CORROSION. CHEMICAL AND PHYSICAL SPECIFICATIONS: DARK BROWN LIQUID OIL SOLUBLE AND WATER DISPERSIBLE SPECIFIC GRAVITY @ 68°F (20°C): 0.90 - 0.92 FLASH POINT (MCC): >340°F (160°C) PH (1% SOLUTION IN DI WATER) AT 68°F (20°C): 6 - 8. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, EXPIRATION DATE, SAP NUMBER AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS).	Chemicals	West Europe
9816	100002135	AMINE CORROSION INHIBITOR	HIGH TEMPERATURE CORROSION INHIBITOR ADDITIVE DRILLING FLUID; LIQUID FORM, CORROSION INHIBITOR FOR HIGH TEMPERATURE, FOR ALLEVIATE FRESH, BRACKISH OR BRINE PACKER FLUIDS CORROSION, LIQUID AMINE AND AMIDE, 55 GAL (208 LITER) DRUM SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL, HIGH TEMPERATURE CORROSION INHIBITOR: A BLEND OF AMINES, DIMETHYLAMINE AND DIMETHYLAMINE SULFATE, SOLUBLE IN OIL AND RESPONSIBLE IN WATER USED TO ALLEVIATE CORROSION IN FRESH, BRACKISH OR BRINE PACKER FLUID AT HIGH WELLBORE TEMPERATURES UP TO 400°F. IMBIBED ADSORPTION FORMS A CHEMICAL FILM ON IRON AND STEEL SURFACES AND DEVELOPS A PASSIVATION LAYER THAT PROVIDES CORROSION PROTECTION IN SOUR H <sub>2</sub> S, SWEET CO <sub>2</sub> AND OXYGEN CORROSION ENVIRONMENT. INCONTACT WITH OIL AND GAS WELLS. CHEMICAL AND PHYSICAL SPECIFICATIONS: DARK AMBER LIQUID OIL SOLUBLE AND WATER DISPERSIBLE SPECIFIC GRAVITY @ 68°F (20°C): 1.0 - 1.8. FLASH POINT (PIMC): >136.4°F (58°C) DILUTED SOLUTION WITH DI WATER (1:1) @ 68°F (20°C): 6 - 7. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, EXPIRATION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS).	Chemicals	West Europe
9824	100002136	WATER SOLUBLE CORROSION INHIBITOR	CORROSION INHIBITOR-MICROBIOSTAT ADDITIVE DRILLING FLUID; LIQUID FORM, CORROSION INHIBITOR AND BIocide FOR USED AS A PACKER FLUID CORROSION INHIBITOR LIQUID AMINE WITH METHANOL MICROBIOSTAT 222 (PVC) DRUM SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL, CORROSION INHIBITOR-MICROBIOSTAT: A COMBINED LIQUID BIocide AND CORROSION INHIBITOR, CATIONIC, WATER SOLUBLE, HETEROCYCLIC AMINE BLEND WITH METHANOL MICROBIOSTAT TO CONTROL ANAEROBIC AND ANAEROBIC BACTERIA GROWTH. IT IS USED AS A PACKER FLUID CORROSION INHIBITOR TO CONTROL GENERAL CORROSION ATTACK ON CASING, TUBING AND DOWNHOLE TOOLS IN CONTACT WITH CLEAR AND VISCOFLOID COMPLETION BRINES. CHEMICAL AND PHYSICAL SPECIFICATIONS: LIGHT (OR PALE) COLORED LIQUID WATER SOLUBLE SPECIFIC GRAVITY @ 68°F (20°C): 0.98 - 1.07 PH (CONCENTRATED SOLUTION) @ 68°F (20°C): 4 - 6 SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, EXPIRATION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS).	Chemicals	West Europe
9830	100002170	NON-IONIC POTATO STARCH	POTATO STARCH-NON-IONIC DRILLING GRADE ADDITIVE DRILLING FLUID; DRY, FREE FLOWING COARSE GRANULATED POWDER FORM POTATO STARCH FOR USED AS A FILTRATE REDUCING AGENT IN VBM WITH HIGH CONCENTRATIONS OF MONOVALENT AND DIVALENT CATIONS OR COMBINATIONS OF ELECTROLYTES, WITH MINIMAL INCREASE IN VISCOSITY. POTATO STARCH 25 KG (55.1 LBS) MULTI-WALL PAPER BAG, VALVE/SPOUT TYPE COMPLETELY SEALED, MOISTURE AND WATER PROOF. THE CONSTRUCTION OF THE MULTI-WALLED BAGS SHALL BE AS FOLLOWS: 1ST PLY 50 LB. NATURAL KRAFT PAPER (INTERIOR PLY) AND 2ND PLY 50 LB. NATURAL KRAFT PAPER 3RD PLY SEPARATE INNER BAG LAYER, HIGH DENSITY ORIENTED AND CROSS-LAMINATED (TUBULAR SHAPE) POLYETHYLENE RESIN LINER WITH A MINIMUM THICKNESS OF 0.1 MM. 4TH PLY 50 LB. NATURAL KRAFT PAPER. 5TH PLY 60 LB. NATURAL KRAFT PAPER. WET STRENGTH (EXTERIOR PLY) SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. A COMPOSITE SAMPLE REPRESENTING EACH DELIVERED BATCH CONFORMS TO API SPEC 13A SECTION 16 (50 13500 STANDARD EVALUATIONS). POTATO STARCH-HIGH TEMPERATURE DRILLING GRADE; DRY, FREE FLOWING COARSE GRANULATED POWDER, FREE FROM LUMPS AND RESISTANT TO MICROBIAL ATTACKS. POTATO STARCH RETAINS FLUIDS MUCH BETTER THAN OTHER STARCHES DUE TO THE LARGE SIZE OF ITS MOLECULES. IT IS SUITABLE FOR USE AS A FILTRATE REDUCING AGENT IN A VARIETY OF WATER-BASED DRILLING FLUIDS WITH HIGH CONCENTRATIONS OF MONOVALENT AND DIVALENT CATIONS OR COMBINATIONS OF ELECTROLYTES, AND CAUSES MINIMAL INCREASE IN VISCOSITY. THE PRODUCT IS A NON-FERMENTING STARCH (BIODEGRADABLE, ENVIRONMENTALLY ACCEPTABLE AND HAS THERMAL STABILITY UP TO 250°F (121°C)). POTATO STARCH QUANTITY IS MONITORED BY EXPEC ARC LABORATORIES. EXPEC CERTIFICATE OF ACCEPTANCE (EXPEC/COA) REFERRING TO THE RESPECTIVE BATCH NUMBER MUST BE ATTACHED TO EACH SHIPMENT DOCUMENTS ACCEPTED FOR FIELD APPLICATIONS. CHEMICAL AND PHYSICAL SPECIFICATIONS: OFF-WHITE, FREE FLOWING GRANULAR POWDER, NON-IONIC, POTATO STARCH MICROSCOPY: DUAL TO SPHERICAL GRANULES / NO FINE ANGULAR PARTICLES MOISTURE: 10% MAXIMUM SPECIFIC GRAVITY @ 68°F (20°C): 1.50 - 1.60 PARTICLE SIZE DISTRIBUTION / DRY SCREEN: PASS THROUGH 10 US MESH (2000 MICRON) SCREEN: 100% MEDIAN PARTICLES "D50": 250-500 MICRONS PASS THROUGH US 140 MESH SCREEN: 15% MAXIMUM RHEOLOGICAL PROPERTIES AT 77°F (25°C) FAAN-35 AT 600 RPM: 18 MAXIMUM (402M3003) 222 (PH) (5% SALT WATER) 20 MAXIMUM (SATURATED SALT WATER) FILTRATE VOLUME AT 77°F (25°C) & 100 PSI: 10 MAXIMUM (40) (5% SALT WATER) 10 MAXIMUM (SATURATED SALT WATER) CONTAMINANTS: (50 11212) (SCREEN) (100 PPM MAXIMUM ARSENIC) (AS) (0.1 PPM MAXIMUM LEAD) (PB) (0.5 PPM MAXIMUM MERCURY) (HG) (0.5 PPM MAXIMUM). SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, EXPIRATION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS).	Chemicals	West Europe
9775	100002172	ORGANOPHILIC LIGNITE	ORGANOPHILIC LIGNITE ADDITIVE DRILLING FLUID; DRY, GRAY TO BLACK POWDER, FORM LIGNONITE OR DIXONITE LIGNITE PROCESS TO BECOME OIL DISPERSIBLE ORGANO-HUMATES, USED AS THE PRIMARY FILTRATION CONTROL ADDITIVE IN ANY OIL BASED DRILLING FLUID SYSTEM STABLE AT STATIC BOTTOM- HOLE TEMPERATURES UP TO 450 DEG F (232 DEG). THE PRODUCT CONTAINS NO ASPHALT OR ASPHALT DERIVATIVES AND USED WITHOUT DETERMINATELY IMPACTING EMULSION STABILITY, SUSPENSION AND RHEOLOGICAL PROPERTIES FOR PRIMARY FILTRATION CONTROL ADDITIVE IN ANY OIL BASED DRILLING FLUID SYSTEMS. LEANABILITY OR OXIDIZER KINETIC PROCESSES TO BECOME OIL DISPERSIBLE ORGANO-HUMATES, 50 LB (22.7 KG) MULTI-WALLED BAG, VALVE/SPOUT TYPE COMPLETELY SEALED: 157 PLY 75 LB. MIN. NATURAL KRAFT PAPER (INTERIOR PLY) AND 2ND PLY 75 LB. MIN. NATURAL KRAFT PAPER. 3RD PLY 80 LB. MIN. NATURAL KRAFT PAPER (EXTERIOR PLY) SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. CHEMICAL AND PHYSICAL SPECIFICATIONS: DRY, GRAY TO BLACK POWDER. MOISTURE: 8%WT. MAXIMUM PASSING THROUGH US MESH: 100%WT. INSOLUBLE IN WATER. DISPERSIBLE IN ORGANIC SOLVENTS. IMPURITIES (SAND, LIME, GYPSUM, CLAY, ETC.): 15%WT. MAXIMUM SPECIFIC GRAVITY @ 68°F (20°C): 1.20 TO 1.80. NON-TOXIC, ENVIRONMENTALLY FRIENDLY MAINTAINS LOW FILTRATION RATES AND STABLE EMULSION. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS).	Chemicals	West Europe
9784	100002174	ORGANOPHILIC CLAY - 40F	ORGANOPHILIC CLAY ADDITIVE DRILLING FLUID; WHITE, DRY, FREE FLOWING POWDER, FREE OF LUMPS FORM ORGANOPHILIC CLAY FOR IMPARTS VISCOSITY AND SUSPENSION PROPERTIES TO ANY OBM, MODIFIED BENTONITE CLAY WITH QUATERNARY AMINES, 55.0 LBS. (22.7 KG). MULTI-WALLED BAG, VALVE/SPOUT TYPE COMPLETELY SEALED: 157 PLY 75 LB. MIN. NATURAL KRAFT PAPER (INTERIOR PLY) AND 2ND PLY 75 LB. MIN. NATURAL KRAFT PAPER. 3RD PLY 80 LB. MIN. NATURAL KRAFT PAPER (EXTERIOR PLY) WET SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. ORGANOPHILIC CLAY: OIL-BASED MUD COMPONENTS OF IT IS MODIFIED BENTONITE (MONTMORILLONITE) CLAY WITH QUATERNARY AMINES USED TO IMPART VISCOSITY AND SUSPENSION PROPERTIES TO ANY OIL-BASED DRILLING AND COMPLETION FLUIDS. CHEMICAL AND PHYSICAL SPECIFICATIONS: DRY, OFF-WHITE TO TAN OR GRAY POWDER. MOISTURE: 5% WT. MAXIMUM PASSING THROUGH 70 US MESH (210 MICRONS): 100%WT. INSOLUBLE IN WATER, DISPERSIBLE IN ORGANIC SOLVENTS DECOMPOSITION TEMP: >200°F (93°C). NON-FLAMMABLE SPECIFIC GRAVITY @ 68°F (20°C): 1.57 TO 1.70. NON-TOXIC, ENVIRONMENTALLY FRIENDLY MAINTAIN LONG TERM SUSPENSION. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS).	Chemicals	West Europe
9877	100002533	CALCIUM CHLORIDE (77-78% 2200 LB/BAG)	CALCIUM CHLORIDE (77-78%) 2200 LB/BAG ADDITIVE DRILLING FLUID; DRY FLAKES, PELLETS, OR GRANULAR FORM DRY FLAKES, PELLETS, OR GRANULAR, WATER-SOLUBLE, USED AS WEIGHTING AGENT TO FORMULATE SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS. IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES. CALCIUM CHLORIDE QUANTITY IS MONITORED BY EXPEC ARC LABORATORIES. EXPEC CERTIFICATE OF ACCEPTANCE (EXPEC/COA) REFERRING TO THE RESPECTIVE BATCH NUMBER MUST BE ATTACHED TO EACH SHIPMENT DOCUMENTS ACCEPTED FOR FIELD APPLICATIONS. FOR USED AS WEIGHTING AGENT TO FORMULATE SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS. IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES. CALCIUM CHLORIDE 77-78%, 1000 KG (2204 LBS) MULTI-WALL MOISTURE-PROOF POLYETHYLENE LINED BAGS WITH LIFTING STRAPS, WITHOUT BOTTOM SPOUT, LIFTING STRAP, BAG IS DISPOSABLE. TOP CLOSURE WATERIGHT, STACKABLE. MINIMUM TENSILE STRENGTH FACTOR 5, FLEXURAL STRENGTH FOR NORMAL HANDLING AND OUTSIDE STORAGE. THE DISPOSABLE SUPER SACKS SHOULD HAVE AT LEAST 75% OF THEIR SHELF LIFE REMAINING (THE PERIOD FROM DATE OF MANUFACTURING TO THE WARRANTED EXPIRATION DATE) WHEN SHIPPED OR RECEIVED AT DESIGNATED PLACE OF DELIVERY TO SAUDI ARAMCO. REFER TO SAP NUMBER: 100080600 FOR DISPOSABLE SUPER SACKS SPECIFICATIONS. SUPPLIERS ARE REQUIRED TO WEIGHT THE TRUCKS BEFORE AND AFTER LOADING AND SUBMIT TO MATERIAL SUPPLY AN OFFICIAL TICKET PRINT DATA STATING: DATE AND TIME, COMPANY AND ADDRESS, TRUCK IDENTIFY NUMBER, MATERIAL NAME, TRUCK WEIGHT BEFORE AND AFTER LOADING, SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. ASTM D98-68/PRACTICE E29 / ASTM D345 - 02(2010) STANDARD TEST METHOD FOR CALC2 SAMPLING AND TESTING. CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: DRY FREE FLOWING WHITE FLAKES OR PELLETS. PURITY: CAL2 77% WT. MINIMUM PASS THROUGH 75 µm SCREEN: 100%WT. NO PARTICLES GREATER THAN 13MM IN ANY DIMENSION. ANKAL CHLORIDES AS NaCl: 7% WT. MAXIMUM AND MgCl2: 1% WT. MAXIMUM HEAVY METALS AS PB: 0.005% WT. MAXIMUM - SULFATE AS CaSO4: 0.05% WT. MAXIMUM. FE: 15 PPM MAXIMUM WATER INSOLUBLE: 0.20% WT. MAXIMUM. REMAINING COMPONENT IS WATER OF CRYSTALLIZATION. PH: (10% DI WATER SOLUTION): 7.5 - 9.5. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS).	Chemicals	West Europe
9923	100018026	SODIUM SULFITE	OXYGEN SCAVENGER - SODIUM SULFITE ADDITIVE DRILLING FLUID; WHITE POWDER, FORM FOR REMOVING SOLUBLE OXYGEN FROM WATER-BASED DRILLING FLUIDS AND MONOVALENT BRINES. SODIUM SULFITE (Na <sub>2</sub> SO <sub>3</sub> ·H <sub>2</sub> O) 132 LB (60.3 KG) PRACTICE BRANDED FIBER OR METAL DRUM WITH POLYETHYLENE LINER. SHIPMENT OF PRODUCTS SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. OXYGEN SCAVENGER - SODIUM SULFITE: ANHYDROUS SODIUM SULFITE (NA <sub>2</sub> SO <sub>3</sub> ) COMMERCIAL GRADE, USED FOR REMOVING SOLUBLE OXYGEN FROM WATER-BASED DRILLING FLUIDS AND MONOVALENT BRINES. IT REACTS WITH DISSOLVED OXYGEN TO REDUCE OXYGEN CORROSION TO FORM SULFATE (SO <sub>4</sub> -2). THIS REACTION REQUIRES A COBALT CATALYST IN THIS CHEMICAL. SOLUBLE OXYGEN REMOVAL USING SMALL AMOUNTS OF THIS PRODUCT REDUCES THE THERMAL DEGRADATION RATE OF THE DRILLING FLUIDS ORGANIC POLYMERS IN HIGH TEMPERATURE WELLS. CHEMICAL AND PHYSICAL SPECIFICATIONS: PURITY: ANHYDROUS SODIUM SULFITE (NA <sub>2</sub> SO <sub>3</sub> ): 99%WT. MINIMUM WHITE TO OFF-WHITE POWDER CATALYZED WITH COBALT: 0.03%WT. MINIMUM PH (1% SOLUTION IN DI WATER): 6.5 - 7.0. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS).	Chemicals	West Europe



9300	6000014891	ACOUSTIC PRESSURE WAVES PLDS	DETECTOR LEAK: NEGATIVE PRESSURE WAVE (ACOUSTIC) TYPE, FOR PIPE, SAES-2-003, THE ACOUSTIC PRESSURE WAVE METHOD ANALYZES THE REFRACTION WAVES	Instrumentation and IT	West Europe
9338	6000016111	DRAG REDUCING AGENT (DRA)	DETECTOR LEAK: NEGATIVE PRESSURE WAVE (ACOUSTIC) TYPE, FOR PIPE, SAES-2-003, THE ACOUSTIC PRESSURE WAVE METHOD ANALYZES THE REFRACTION WAVES	Instrumentation and IT	West Europe
9341	6000016111	DRAG REDUCING AGENT (DRA)	DETECTOR LEAK: NEGATIVE PRESSURE WAVE (ACOUSTIC) TYPE, FOR PIPE, SAES-2-003, THE ACOUSTIC PRESSURE WAVE METHOD ANALYZES THE REFRACTION WAVES	Instrumentation and IT	West Europe
9341	6000009433	ANODE-BACKFILL CARBON MATERIAL, ICCP CP	ANODE-BACKFILL CARBON MATERIAL, ICCP CP	Others	West Europe
8876	6000011310	HYDRANT FIRE, 6 IN INLET, PR 200 PSI WP, UL/AND FM, COMPETING WITH 21-SAMMS-15, WITH OR WITHOUT FIRE MONITOR FLANGE, WITH OR WITHOUT BREAKABLE	HYDRANT FIRE, 6 IN INLET, PR 200 PSI WP, UL/AND FM, COMPETING WITH 21-SAMMS-15, WITH OR WITHOUT FIRE MONITOR FLANGE, WITH OR WITHOUT BREAKABLE	Others	West Europe
8874	6000011310	HYDRANT FIRE, 6 IN INLET, PR 200 PSI WP, UL/AND FM, COMPETING WITH 21-SAMMS-15, WITH OR WITHOUT FIRE MONITOR FLANGE, WITH OR WITHOUT BREAKABLE	HYDRANT FIRE, 6 IN INLET, PR 200 PSI WP, UL/AND FM, COMPETING WITH 21-SAMMS-15, WITH OR WITHOUT FIRE MONITOR FLANGE, WITH OR WITHOUT BREAKABLE	Others	West Europe
8889	6000011314	MONITOR; FIREFIGHTING; HYDRANT-MOUNTED TYPE, UL/FM	MONITOR; FIREFIGHTING; HYDRANT-MOUNTED TYPE, ANY RANGE, UL/FM LISTED/ APPROVED, INDUSTRIAL MONITOR SYSTEM, CAST BRASS SWIVEL JOINTS USING BRASS	Others	West Europe
8890	6000011314	MONITOR; FIREFIGHTING; HYDRANT-MOUNTED TYPE, UL/FM	MONITOR; FIREFIGHTING; HYDRANT-MOUNTED TYPE, ANY RANGE, UL/FM LISTED/ APPROVED, INDUSTRIAL MONITOR SYSTEM, CAST BRASS SWIVEL JOINTS USING BRASS	Others	West Europe
8574	6000011329	SIGNAL; TRAFFIC; INCLUDES CONTROLLER;	SIGNAL; TRAFFIC; TYPE, SIZE, ANY INCLUDES CONTROLLER	Others	West Europe
8835	6000011356	FOAM; OXIDIZER VISCOMETER SPINDLE FOR HYDROCARBON GALDONS TOTS	FOAM; OXIDIZER VISCOMETER SPINDLE FOR HYDROCARBON GALDONS TOTS	Others	West Europe
8836	6000011356	FOAM; OXIDIZER VISCOMETER SPINDLE FOR HYDROCARBON GALDONS TOTS	FOAM; OXIDIZER VISCOMETER SPINDLE FOR HYDROCARBON GALDONS TOTS	Others	West Europe
9748	6000011846	HEATER, DUCT; ELECTRIC;	HEATER DUCT; ELECTRIC ELEMENT, ANY	Others	West Europe
9752	6000011846	HEATER, DUCT; ELECTRIC;	HEATER DUCT; ELECTRIC ELEMENT, ANY	Others	West Europe
9952	600002419	Water Filter Media	FILTER, SAND BED TYPE, FOR WATER SERVICE, FILTER MEDIA, WATER, 32-SAMMS-034, WATER FILTER MEDIA INCLUDING: SAND, ANTHRACITE, MANGANESE GREEN SAND,	Others	West Europe
9953	600002419	Water Filter Media	FILTER, SAND BED TYPE, FOR WATER SERVICE, FILTER MEDIA, WATER, 32-SAMMS-034, WATER FILTER MEDIA INCLUDING: SAND, ANTHRACITE, MANGANESE GREEN SAND,	Others	West Europe
8899	600002696	PANEL CONTROL, FIRE, PUMP TYPE, UL/FM LISTED/ APPROVED, COMPLY	PANEL CONTROL, FIRE PUMP TYPE, UL/FM LISTED/ APPROVED, COMPLY W/ TYPE, UL, LISTED OR FM APPROVED, PANELS SHALL BE LISTED FOR +50 DEG. CELSIUS,	Others	West Europe
8881	600002872	VALVE; DIFFERENTIAL DIAPHRAGM TYPE, DELUGE FLOOD	VALVE; DIFFERENTIAL DIAPHRAGM TYPE, SIZE ANY, DELUGE FLOOD	Others	West Europe
8882	600002872	VALVE; DIFFERENTIAL DIAPHRAGM TYPE, DELUGE FLOOD	VALVE; DIFFERENTIAL DIAPHRAGM TYPE, SIZE ANY, DELUGE FLOOD	Others	West Europe
10020	600008555	Thermal & Electro-dialysis Desal Sys	DESALINATION; THERMAL & ELECTRO-DIALYSIS DESALINATION SYSTEMS TYPE, REVERSAL, (EDR) EQUIPMENT	Others	West Europe
10022	600008555	Thermal & Electro-dialysis Desal Sys	DESALINATION; THERMAL & ELECTRO-DIALYSIS DESALINATION SYSTEMS TYPE, REVERSAL, (EDR) EQUIPMENT	Others	West Europe
10062	600008580	FILTER; MICRON FILTERS FOR WATER SERVICE	FILTER; WATER MEMBRANE FILTERS TYPE, MICRON FILTERS FOR WATER SERVICE, CROSS-FLOW, DEAD-END CARTRIDGE FILTERS NOMINAL OR ABSOLUTE 1-100 MICRON,	Others	West Europe
10064	600008580	FILTER; MICRON FILTERS FOR WATER SERVICE	FILTER; WATER MEMBRANE FILTERS TYPE, MICRON FILTERS FOR WATER SERVICE, CROSS-FLOW, DEAD-END CARTRIDGE FILTERS NOMINAL OR ABSOLUTE 1-100 MICRON,	Others	West Europe
8865	600011727	DETECTOR FIRE PROTECTION; VERY EARLY WARNING ASPIRED SMOKE	DETECTOR FIRE PROTECTION; VERY EARLY WARNING ASPIRED SMOKE DETECTION SYSTEM TYPE, UL/FM LISTED/ APPROVED, COMPLY W/ CONSISTING OF HIGH SENSITIVITY	Others	West Europe
8866	600011727	DETECTOR FIRE PROTECTION; VERY EARLY WARNING ASPIRED SMOKE	DETECTOR FIRE PROTECTION; VERY EARLY WARNING ASPIRED SMOKE DETECTION SYSTEM TYPE, UL/FM LISTED/ APPROVED, COMPLY W/ CONSISTING OF HIGH SENSITIVITY	Others	West Europe
9536	600013337	HOOD; FUME, COMMERCIAL COOKING	HOOD; FUME, COMMERCIAL COOKING TYPE, ANSI/ASHRAE 154	Others	West Europe
9537	600013337	HOOD; FUME, COMMERCIAL COOKING	HOOD; FUME, COMMERCIAL COOKING TYPE, ANSI/ASHRAE 154	Others	West Europe
8845	600014422	MONITOR; FIREFIGHTING; REMOTE CONTROL TYPE, ELECTRICALLY OPERATED	MONITOR; FIREFIGHTING; REMOTE CONTROL TYPE, ANY RANGE, ELECTRICALLY OPERATED SUPPLY, SAES-8-060, AUTOMATIC OSCILLATING FIRE MONITOR SYSTEM WHICH	Others	West Europe
8846	600014422	MONITOR; FIREFIGHTING; REMOTE CONTROL TYPE, ELECTRICALLY OPERATED	MONITOR; FIREFIGHTING; REMOTE CONTROL TYPE, ANY RANGE, ELECTRICALLY OPERATED SUPPLY, SAES-8-060, AUTOMATIC OSCILLATING FIRE MONITOR SYSTEM WHICH	Others	West Europe
9843	600014524	HUMIDIFIER; HVAC; DUCTED	HUMIDIFIER; ELECTRIC, GAS, OR HOT WATER COMMERCIAL/INDUSTRIAL TYPE, ANY, 110 VAC-460 VAC, 60 HZ, ANSI/AHRI-640, ANSI/AHRI-640 CERTIFICATE	Others	West Europe
9845	600014524	HUMIDIFIER; HVAC; DUCTED	HUMIDIFIER; ELECTRIC, GAS, OR HOT WATER COMMERCIAL/INDUSTRIAL TYPE, ANY, 110 VAC-460 VAC, 60 HZ, ANSI/AHRI-640, ANSI/AHRI-640 CERTIFICATE	Others	West Europe
10615	600001470	FLANGE; PIPE; CONNECTOR, MECHANICAL END	FLANGE; PIPE; CONNECTOR TYPE, ANY NPS, ANY MECHANICAL END, CONNECTORS	Others	West Europe
10616	600001470	FLANGE; PIPE; CONNECTOR, MECHANICAL END	FLANGE; PIPE; CONNECTOR TYPE, ANY NPS, ANY MECHANICAL END, CONNECTORS	Others	West Europe
9516	600014911	SEPARATOR; AIR AND DIRT	SEPARATOR; SEPARATOR, AIR AND DIRT TYPE, ASME SECTION VIII, DIVISION 1	Others	West Europe
9517	600014911	SEPARATOR; AIR AND DIRT	SEPARATOR; SEPARATOR, AIR AND DIRT TYPE, ASME SECTION VIII, DIVISION 1	Others	West Europe
9496	600016831	FIRE AND GAS DAMPER (OFFSHORE)	DAMPER, FIRE & GAS DAMPER OFFSHORE TYPE, SIZE VARIES VALVE/STAINLESS STEEL, 316L SHEET OR BETTER, INTERNATIONAL MARITIME ORGANIZATION (IMO) & SAFETY OF LIFE	Others	West Europe
9497	600016831	FIRE AND GAS DAMPER (OFFSHORE)	DAMPER, FIRE & GAS DAMPER OFFSHORE TYPE, SIZE VARIES VALVE/STAINLESS STEEL, 316L SHEET OR BETTER, INTERNATIONAL MARITIME ORGANIZATION (IMO) & SAFETY OF LIFE	Others	West Europe
8855	600017250	SUPPRESSOR; FIRE PROTECTION, WET CHEMICAL SYSTEM FOR COMMERCIAL	SUPPRESSOR; FIRE PROTECTION, WET CHEMICAL SYSTEM FOR COMMERCIAL COOKING EQUIPMENT TYPE, UL 300 LISTED, FIRE EXTINGUISHING SYSTEMS FOR ALL	Others	West Europe
8856	600017250	SUPPRESSOR; FIRE PROTECTION, WET CHEMICAL SYSTEM FOR COMMERCIAL	SUPPRESSOR; FIRE PROTECTION, WET CHEMICAL SYSTEM FOR COMMERCIAL COOKING EQUIPMENT TYPE, UL 300 LISTED, FIRE EXTINGUISHING SYSTEMS FOR ALL	Others	West Europe
8527	600000030	PIPE; NON-METALLIC; THERMOPLASTIC; CPVC;	PIPE; NON-METALLIC; ANY NPS, CALORIMATED POLYVINYL CHLORIDE (CPVC), ISO 15877, ASTM F441, SOLID, WALL, MAXIMUM TEMPERATURE 92.82 °C, HOT AND COLD	Pipe & OCTG	West Europe
10330	600000049	PIPE; METALLIC; HWF CLASS B FOR NON SDR	PIPE; METALLIC; ALL SIZE NPS, ANY STEEL, LGR GRADE B THRU 370, INHW APP 9L, 01-SAMMS-133, CLASS B, NON SDR	Pipe & OCTG	West Europe
9648	600003855	CASING; OCTG; API GR. S&W	CASING; OCTG; STEEL, S&W 45-SAMMS-006, APP-SL, SIZE 26 IN. AND LARGER	Pipe & OCTG	West Europe
9649	600003855	CASING; OCTG; API GR. S&W	CASING; OCTG; STEEL, S&W 45-SAMMS-006, APP-SL, SIZE 26 IN. AND LARGER	Pipe & OCTG	West Europe
9687	600003877	TUBING; OCTG; API GR. SEAMLESS	TUBING; OCTG; STEEL, SEAMLESS, API-5CT, APP-5B 45-SAMMS-006, SIZE 26 IN. AND LARGER	Pipe & OCTG	West Europe
9654	600003903	PUP JOINT; OCTG; STEEL; SEAMLESS	PUP JOINT; OCTG; STEEL, SEAMLESS, API-5CT, APP-5B 45-SAMMS-006, GR UN N80B28 OR EQUIVALENT, SIZE ANY, PREMIUM THREAD END	Pipe & OCTG	West Europe
9678	600007293	COUPLING; OCTG; HIGH NICKEL	COUPLING; OCTG; HIGH NICKEL ALLOY STAINLESS STEEL, SEAMLESS, API-5CT, ISO-13880 45-SAMMS-006, GR UN N80B28 OR EQUIVALENT, SIZE ANY, PREMIUM THREAD END	Pipe & OCTG	West Europe
9698	600007293	CASING; OCTG; HIGH NICKEL; SEAMLESS	CASING; OCTG; HIGH NICKEL ALLOY STAINLESS STEEL, SEAMLESS, API-5CT, ISO-13880 45-SAMMS-006, GR UN N80B28 OR EQUIVALENT, SIZE ANY, PREMIUM THREAD END	Pipe & OCTG	West Europe
9720	600007305	CROSSOVER; OCTG; HIGH NICKEL	CROSSOVER; OCTG; HIGH NICKEL ALLOY STAINLESS STEEL, SEAMLESS, API-5CT, ISO-13880 45-SAMMS-006, COLLAPSE TEST PER API WITH	Pipe & OCTG	West Europe
9727	600007307	PUP JOINT; CASING OCTG; HIGH NICKEL	PUP JOINT; OCTG; HIGH NICKEL ALLOY STAINLESS STEEL, SEAMLESS, API-5CT, ISO-13880 45-SAMMS-006, COLLAPSE TEST PER API WITH	Pipe & OCTG	West Europe
8918	600000224	COMPRESSOR; AIR; CENTRIFUGAL; INTEGRALLY GEARED	COMPRESSOR; AIR; CENTRIFUGAL, INTEGRALLY GEARED TYPE, 31-SAMMS-006	Rotating Equipment	West Europe
8919	600000224	COMPRESSOR; AIR; CENTRIFUGAL; INTEGRALLY GEARED	COMPRESSOR; AIR; CENTRIFUGAL, INTEGRALLY GEARED TYPE, 31-SAMMS-006	Rotating Equipment	West Europe
8866	600002367	PUMP; CENTRIFUGAL; CANNED MOTOR;	PUMP; CENTRIFUGAL, CANNED MOTOR TYPE, ANY SINGLE STAGES, ASME B73.3M / ISO15783	Rotating Equipment	West Europe
8969	600015090	TURBINE; WIND, FOR POWER GENERATOR	FILTER ELEMENT; FOR COMBUSTION GAS TURBINE, 32-SAMMS-008, AIR INLET, FINAL STAGE	Rotating Equipment	West Europe
8941	600016250	ENGINE; DIESEL; FIRE WATER PUMP DRIVER	ENGINE; DIESEL; FIRE WATER PUMP DRIVER, PER UL 1247 OR FM 1333 INSPCTION FORM 175-300100	Rotating Equipment	West Europe
8948	600016250	ENGINE; DIESEL; FIRE WATER PUMP DRIVER	ENGINE; DIESEL; FIRE WATER PUMP DRIVER, PER UL 1247 OR FM 1333 INSPCTION FORM 175-300100	Rotating Equipment	West Europe
8909	600016462	ENGINE; ENGINE, GAS OR DUEL FUEL INDUSTRIAL TYPE	ENGINE; ENGINE, GAS OR DUEL FUEL INDUSTRIAL TYPE, ANY BHP	Rotating Equipment	West Europe
8909	600016462	ENGINE; ENGINE, GAS OR DUEL FUEL INDUSTRIAL TYPE	ENGINE; ENGINE, GAS OR DUEL FUEL INDUSTRIAL TYPE, ANY BHP	Rotating Equipment	West Europe
8825	600016780	FILTER; PROCESS GAS	FILTER; GAS, LIQUID, ANY PROCESS, ANY NAFC MR-0175/0-1515, ELECTROFLOC PACKAGE FOR PROCESS GAS COMPRESSION, NOT FOR STEAM-VACUUM SERVICES.	Rotating Equipment	West Europe
10347	600000097	JOINT; PIPE; EXPANSION; ANY METAL	JOINT; EXPANSION, SIZE ANY, LG ASME B16.5	Static Equipment	West Europe
10348	600000097	JOINT; PIPE; EXPANSION; ANY METAL	JOINT; EXPANSION, SIZE ANY, LG ASME B16.5	Static Equipment	West Europe
10365	600000134	SLAVE; PIPE; TWO HALVES; BOLTED FLANGED	SLAVE PIPE BOLTED; ANY NOM PIPE, STEEL, ANY WP, FOR PIPE REPAIR	Static Equipment	West Europe
10366	600000134	SLAVE; PIPE; TWO HALVES; BOLTED FLANGED	SLAVE PIPE BOLTED; ANY NOM PIPE, STEEL, ANY WP, FOR PIPE REPAIR	Static Equipment	West Europe
10439	600000296	VALVE; GATE; WEDGE OR DRILL DISC; UP TO 12	VALVE; GATE; SIZE UP TO NPS 12, ANY RATING, ALL ENDS SUPPLY CAST OR DUCTILE IRON BODY, DA-SAMMS-035, AWWA, WITH OR WITHOUT ACTUATOR	Static Equipment	West Europe
10457	600000215	VALVE; CHOK; AUTOMATIC PLUG-AND-CAGE; H	VALVE; CHOK; PLUG-AND-CAGE SINGLE STAGE TRIM TYPE, UP TO 6 INCH MAXIMUM ORIFICE BODY, PR 10,000 PSI, FLANGED HUBBED OR BUTTWELD END CONN, STEEL	Static Equipment	West Europe
10458	600000215	VALVE; CHOK; AUTOMATIC PLUG-AND-CAGE; H	VALVE; CHOK; PLUG-AND-CAGE SINGLE STAGE TRIM TYPE, UP TO 6 INCH MAXIMUM ORIFICE BODY, PR 10,000 PSI, FLANGED HUBBED OR BUTTWELD END CONN, STEEL	Static Equipment	West Europe
10476	6000001136	VALVE; PLUG; 4-WAY DIVERTER; 2 THRU 24	VALVE; PLUG; 4-WAY DIVERTER TYPE, NPS 2 THRU 24, ASME CLASS 2000/3001 222 (PC) 150 THRU 600 SUPPLY, FLANGED OR BUTTWELD END CONN, STEEL BODY, DA-SAMMS-035	Static Equipment	West Europe
9267	6000001821	AIR HANDLING UNIT; AHU; CHILLED WATER OR	AIR HANDLING UNIT; AHU; CHILLED WATER OR DIRECT EXPANSION, ONSHORE ALL SIZES AND OFFSHORE LESS THAN 10 TONS COOLING, MANUFACTURER STANDARD	Static Equipment	West Europe
9270	600001821	AIR HANDLING UNIT; AHU; CHILLED WATER OR	AIR HANDLING UNIT; AHU; CHILLED WATER OR DIRECT EXPANSION, ONSHORE ALL SIZES AND OFFSHORE LESS THAN 10 TONS COOLING, MANUFACTURER STANDARD	Static Equipment	West Europe



5624	6000004043	Single ICD Installation	CEMENTER: ANY TOOL, OD, MULTI STAGE INFLATABLE AND MECHANICAL PACKER FOR CEMENTING (DVI)	Drilling Equipment	East Europe																
9505	600001721	Expendable Pipe System	UNIT: ANY TYPE EXPANDABLE DRILLING ACCESSORIES	Drilling Equipment	East Europe																
9505	600001784	Multi-Port Lateral	LATERAL: ANY MPS ANY LATERALS AND ACCESSORIES EQUIPMENT	Drilling Equipment	East Europe																
8562	6000000774	TRAY: CABLE, FIBERGLASS	TRAY: CABLE, FIBERGLASS, NEMA FG-1 S-P-104 SEC. 9	Electrical	East Europe																
8571	6000000894	SWITCHGEAR: SF-6, 1 TO 16 KV	SWITCHGEAR: MANUALLY OPERATED TYPE 1 TO 16 KV ANY BIL, 16D MTD MTG. 16-SAMMS-510,ANS/IEEE OR IEC SF-6,	Electrical	East Europe																
8585	6000000994	SWITCHGEAR: MANUALLY OPERATED	SWITCHGEAR: MANUALLY OPERATED TYPE 1 TO 16 KV ANY BIL, 16D MTD MTG. 16-SAMMS-510,ANS/IEEE OR IEC SF-6,	Electrical	East Europe																
8693	6000000903	SWITCH: DISCONNECT: HIGH VOLTAGE	SWITCH: DISCONNECT: HIGH VOLTAGE, ANY ACTION, ELECTRICAL TYPE, 30-TMSS-01	Electrical	East Europe																
8693	6000000903	SWITCH: DISCONNECT: HIGH VOLTAGE	SWITCH: DISCONNECT: HIGH VOLTAGE, ANY ACTION, ELECTRICAL TYPE, 30-TMSS-01	Electrical	East Europe																
8657	6000000919	SWITCHGEAR: LV CONTROLGEAR, FIREWATER PU	SWITCHGEAR: CONTROLGEAR, FIREWATER PUMP TYPE ANY BIL, 218-LOW VOLTAGE, OUTDOOR	Electrical	East Europe																
8658	6000000919	SWITCHGEAR: LV CONTROLGEAR, FIREWATER PU	SWITCHGEAR: CONTROLGEAR, FIREWATER PUMP TYPE ANY BIL, 218-LOW VOLTAGE, OUTDOOR	Electrical	East Europe																
8676	6000000920	SWITCHGEAR: HV CONTROLGEAR, FIREWATER PU	SWITCHGEAR: CONTROLGEAR, FIREWATER PUMP TYPE ANY BIL, 218-HIGH VOLTAGE, OUTDOOR	Electrical	East Europe																
8676	6000000920	SWITCHGEAR: HV CONTROLGEAR, FIREWATER PU	SWITCHGEAR: CONTROLGEAR, FIREWATER PUMP TYPE ANY BIL, 218-HIGH VOLTAGE, OUTDOOR	Electrical	East Europe																
8806	6000000957	CABLE: ELECTRICAL: CP, OFFSHORE ANODE	CABLE: ELECTRICAL: ANY SUPPLY, ANY CONDUCTOR, ORED HOOD: PROTECTION OFFSHORE, TYPE: POWER TYPE, 17-SAMMS-017 ARMORED	Electrical	East Europe																
8807	6000000957	CABLE: ELECTRICAL: CP, OFFSHORE ANODE	CABLE: ELECTRICAL: ANY SUPPLY, ANY CONDUCTOR, ORED HOOD: PROTECTION OFFSHORE, TYPE: POWER TYPE, 17-SAMMS-017 ARMORED	Electrical	East Europe																
8528	6000000999	FORM-WOUND BRUSHLESS SYNCH. MOTOR	MOTOR SYNCHRONOUS; 500 HP MINIMUM POWER, 400V V MINIMUM, 3 PHASE, HORIZONTAL MTD, 17-SAMMS-520	Electrical	East Europe																
8599	6000000999	FORM-WOUND BRUSHLESS SYNCH. MOTOR	MOTOR SYNCHRONOUS; 500 HP MINIMUM POWER, 400V V MINIMUM, 3 PHASE, HORIZONTAL MTD, 17-SAMMS-520	Electrical	East Europe																
8752	6000010011	POWER SUPPLY: ELECTRICAL: SOLAR, CP	POWER SUPPLY ELECTRICAL: HODC PROTECTION POWER PLY ELECTRICAL SOLAR POWER TYPE, ANY POWER, ANY, 17-SAMMS-012	Electrical	East Europe																
8753	6000010011	POWER SUPPLY: ELECTRICAL: SOLAR, CP	POWER SUPPLY ELECTRICAL: HODC PROTECTION POWER PLY ELECTRICAL SOLAR POWER TYPE, ANY POWER, ANY, 17-SAMMS-012	Electrical	East Europe																
8789	6000010040	ANODE: GALVANIC: MAGNESIUM, WITHOUT LEAD, CP	ANODE GALVANIC: HIGH TEMPERATURE ZINC; 17-SAMMS-006, CATHODIC PROTECTION	Electrical	East Europe																
8793	6000010040	ANODE: GALVANIC: MAGNESIUM, WITHOUT LEAD, CP	ANODE GALVANIC: HIGH TEMPERATURE ZINC; 17-SAMMS-006, CATHODIC PROTECTION	Electrical	East Europe																
8793	6000010040	ANODE: GALVANIC: MAGNESIUM, WITHOUT LEAD, CP	ANODE GALVANIC: HIGH TEMPERATURE ZINC; 17-SAMMS-006, CATHODIC PROTECTION	Electrical	East Europe																
8771	6000015510	ANODE: GALVANIC: HIGH TEMPERATURE ZINC, CP	ANODE GALVANIC: HIGH TEMPERATURE ZINC; 17-SAMMS-006, CATHODIC PROTECTION	Electrical	East Europe																
8771	6000015510	ANODE: GALVANIC: HIGH TEMPERATURE ZINC, CP	ANODE GALVANIC: HIGH TEMPERATURE ZINC; 17-SAMMS-006, CATHODIC PROTECTION	Electrical	East Europe																
8621	6000015902	UNIT: MOBILE SUBSTATION	UNIT: MOBILE SUBSTATION TYPE, TMSS-01, 35-TMSS-1, TMSS-10, 46-TMSS-6, TMSS-1, 31-TMSS-2, 2.32-TMSS-3, 51-TMSS-1, 37-TMSS-1, TMSS-01, 11-6DMS-03, 54-TMSS-1, MOBILE SUBSTATION AS PER ATTACHED TECHNICAL SPECIFICATION, BASED ON SEC STANDARDS. SCOPE INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: ENGINEERING, DESIGN, MANUFACTURING, ASSEMBLING, FACTORY TESTING, DELIVERY TO KSA, MINISTRY OF TRANSPORT APPROVAL, DOCUMENTATION, SPARE PARTS CATALOGUE, SUPPLY OF CRITICAL SPARE PARTS FOR COMMISSIONING, SITE PRE-COMMISSIONING.	Electrical	East Europe																
8622	6000015902	UNIT: MOBILE SUBSTATION	UNIT: MOBILE SUBSTATION TYPE, TMSS-01, 35-TMSS-1, TMSS-10, 46-TMSS-6, TMSS-1, 31-TMSS-2, 2.32-TMSS-3, 51-TMSS-1, 37-TMSS-1, TMSS-01, 11-6DMS-03, 54-TMSS-1, MOBILE SUBSTATION AS PER ATTACHED TECHNICAL SPECIFICATION, BASED ON SEC STANDARDS. SCOPE INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: ENGINEERING, DESIGN, MANUFACTURING, ASSEMBLING, FACTORY TESTING, DELIVERY TO KSA, MINISTRY OF TRANSPORT APPROVAL, DOCUMENTATION, SPARE PARTS CATALOGUE, SUPPLY OF CRITICAL SPARE PARTS FOR COMMISSIONING, SITE PRE-COMMISSIONING.	Electrical	East Europe																
8713	6000015923	BUS, ISOLATED PHASE BUS DUCT	BUS, SIZE ANY, ANY, 16-SAMMS-523 ISOLATED PHASE BUS DUCT	Electrical	East Europe																
8714	6000015923	BUS, ISOLATED PHASE BUS DUCT	BUS, SIZE ANY, ANY, 16-SAMMS-523 ISOLATED PHASE BUS DUCT	Electrical	East Europe																
8637	6000016994	CAPACITOR BANK	UNIT: SHUNT CAPACITOR TYPE, 43-TMSS-02, SAES-3, 116, POWER FACTOR CORRECTION CAPACITOR BANK 4.16KV THROUGH 380KV	Electrical	East Europe																
8734	6000016994	CAPACITOR BANK	UNIT: SHUNT CAPACITOR TYPE, 43-TMSS-02, SAES-3, 116, POWER FACTOR CORRECTION CAPACITOR BANK 4.16KV THROUGH 380KV	Electrical	East Europe																
8733	6000016802	ANODE: MMO, GRID, WITHOUT LEAD; CP	ANODE IMPRESSED CURRENT; GRID SYSTEM, WITHOUT LEAD TERMINAL, MIXED METAL OXIDE COATED TITANIUM BASE, TITANIUM CONDUCTOR BAR & ANODE WIRE CONNECTION FOR CATHODIC PROTECTION, 17-SAMMS-007	Electrical	East Europe																
8733	6000016802	ANODE: MMO, GRID, WITHOUT LEAD; CP	ANODE IMPRESSED CURRENT; GRID SYSTEM, WITHOUT LEAD TERMINAL, MIXED METAL OXIDE COATED TITANIUM BASE, TITANIUM CONDUCTOR BAR & ANODE WIRE CONNECTION FOR CATHODIC PROTECTION, 17-SAMMS-007	Electrical	East Europe																
9015	6000001582	CONTROLLER: ELECTRONIC: COMPRESSOR	CONTROLLER: COMPRESSOR INCLUDING SURGE CONTROL TYPE, ANY RANGE, SPECIALIZED CONTROL SYSTEMS	Instrumentation and IT	East Europe																
9015	6000001582	CONTROLLER: ELECTRONIC: COMPRESSOR	CONTROLLER: COMPRESSOR INCLUDING SURGE CONTROL TYPE, ANY RANGE, SPECIALIZED CONTROL SYSTEMS	Instrumentation and IT	East Europe																
9012	6000002659	ANALYZER: COLOR	ANALYZER: COLOR TYPE, ANY RANGE	Instrumentation and IT	East Europe																
9012	6000002659	ANALYZER: COLOR	ANALYZER: COLOR TYPE, ANY RANGE	Instrumentation and IT	East Europe																
9053	6000002659	ANALYZER: COLOR	ANALYZER: COLOR TYPE, ANY RANGE	Instrumentation and IT	East Europe																
9051	6000002689	CALIBRATION GAS CYLINDER FOR GAS MONITOR	CYLINDER: CALIBRATION GAS TYPE, SIZE ANY, ANY, FOR COMBUSTIBLE & TOXIC GAS MONITORS ONLY	Instrumentation and IT	East Europe																
9052	6000002689	CALIBRATION GAS CYLINDER FOR GAS MONITOR	CYLINDER: CALIBRATION GAS TYPE, SIZE ANY, ANY, FOR COMBUSTIBLE & TOXIC GAS MONITORS ONLY	Instrumentation and IT	East Europe																
9070	6000002725	ESC: ELECTRONIC: SOLID STATE	RELAY PROTECTION SOLID STATE, ANY COILANT CONTACT, ANY TYPE, EMERGENCY SHUTDOWN SYSTEM ACTION, 34-SAMMS-623, SOLID STATE ELECTRONICS BASED USED TO SAFELY SHUTDOWN A PROCESS IN CASE OF PROCESS DEVIATING TO HAZARDOUS OPERATING CONDITIONS.	Instrumentation and IT	East Europe																
9071	6000002725	ESC: ELECTRONIC: SOLID STATE	RELAY PROTECTION SOLID STATE, ANY COILANT CONTACT, ANY TYPE, EMERGENCY SHUTDOWN SYSTEM ACTION, 34-SAMMS-623, SOLID STATE ELECTRONICS BASED USED TO SAFELY SHUTDOWN A PROCESS IN CASE OF PROCESS DEVIATING TO HAZARDOUS OPERATING CONDITIONS.	Instrumentation and IT	East Europe																
9090	6000002732	MONITOR: FLAME MONITORING SYSTEM	MONITOR: IGNITERS AND BURNERS USED E MONITORING SYSTEM D IN FIED OPERATING TYPE, ANY RANGE, 34-SAMMS-617	Instrumentation and IT	East Europe																
9092	6000002732	MONITOR: IGNITERS AND BURNERS SYSTEM	MONITOR: IGNITERS AND BURNERS USED E MONITORING SYSTEM D IN FIED OPERATING TYPE, ANY RANGE, 34-SAMMS-617	Instrumentation and IT	East Europe																
9109	6000002746	ANALYZER: GRAVIMETER	ANALYZER: GRAVIMETER TYPE, ANY RANGE	Instrumentation and IT	East Europe																
9109	6000002746	ANALYZER: GRAVIMETER	ANALYZER: GRAVIMETER TYPE, ANY RANGE	Instrumentation and IT	East Europe																
9127	6000002777	FLOWMETER: MULTIPHASE ULTRASONIC: GAS SER	FLOWMETER: MULTIPHASE ULTRASONIC TYPE, 34-SAMMS-010, GAS SERVICE (DM00031) 2.22 (PNC)	Instrumentation and IT	East Europe																
9128	6000002777	FLOWMETER: MULTIPHASE ULTRASONIC: GAS SER	FLOWMETER: MULTIPHASE ULTRASONIC TYPE, 34-SAMMS-010, GAS SERVICE (DM00031) 2.22 (PNC)	Instrumentation and IT	East Europe																
9145	6000002786	MONITOR: GAS: HYDROGEN SULFIDE	MONITOR: GAS: HYDROGEN SULFIDE, ANY RANGE, 34-SAMMS-514	Instrumentation and IT	East Europe																
9146	6000002786	MONITOR: GAS: HYDROGEN SULFIDE	MONITOR: GAS: HYDROGEN SULFIDE, ANY RANGE, 34-SAMMS-514	Instrumentation and IT	East Europe																
9162	6000002822	Gauge: RADAR: TANK GAUGING	Gauge: RADAR TYPE, ANY RANGE, 34-SAMMS-319, TANK GAUGING EQUIPMENT FOR INVENTORY TANK USE ONLY.	Instrumentation and IT	East Europe																
9164	6000002822	Gauge: RADAR: TANK GAUGING	Gauge: RADAR TYPE, ANY RANGE, 34-SAMMS-319, TANK GAUGING EQUIPMENT FOR INVENTORY TANK USE ONLY.	Instrumentation and IT	East Europe																
9972	6000002856	VALVE: AUTOMATIC RECIRCULATION	VALVE: AUTOMATIC RECIRCULATION TYPE, SIZE ANY, 34-SAMMS-711	Instrumentation and IT	East Europe																
9973	6000002856	VALVE: AUTOMATIC RECIRCULATION	VALVE: AUTOMATIC RECIRCULATION TYPE, SIZE ANY, 34-SAMMS-711	Instrumentation and IT	East Europe																
10062	6000002896	VALVE: SURGE GAS LOADED	VALVE RELIEF: SIZE ANY END CONN, ANY SUPPLY, ANY, SAES-1+605, SURGE GAS LOADED TYPE	Instrumentation and IT	East Europe																
10063	6000002896	VALVE: SURGE GAS LOADED	VALVE RELIEF: SIZE ANY END CONN, ANY SUPPLY, ANY, SAES-1+605, SURGE GAS LOADED TYPE	Instrumentation and IT	East Europe																
9181	6000002898	BUILDING: ANALYZER: INCLUDES INTEGRATION	BUILDING: ANALYZER TYPE, SIZE ANY, SAES-1+510, INCLUDES ANALYZER INTEGRATION.	Instrumentation and IT	East Europe																
9183	6000002898	BUILDING: ANALYZER: INCLUDES INTEGRATION	BUILDING: ANALYZER TYPE, SIZE ANY, SAES-1+510, INCLUDES ANALYZER INTEGRATION.	Instrumentation and IT	East Europe																
9200	6000002914	ANALYZER: GAS CHROMATOGRAPHY: Sheltered	ANALYZER: GAS CHROMATOGRAPHY TYPE, ANY RANGE, 34-SAMMS-510, PROCESS GAS OR LIQUID	Instrumentation and IT	East Europe																
9201	6000002914	ANALYZER: GAS CHROMATOGRAPHY: Sheltered	ANALYZER: GAS CHROMATOGRAPHY TYPE, ANY RANGE, 34-SAMMS-510, PROCESS GAS OR LIQUID	Instrumentation and IT	East Europe																
9216	6000002990	CUSTOMY FLOW: WAVE RADAR LEVEL TRANSMITTERS	TRANSFER LIQUID LEVEL, GUIDED WAVE RADAR (GWR) TYPE, GUIDED WAVE RADAR (GWR) LEVEL TRANSMITTERS	Instrumentation and IT	East Europe																
9216	6000002990	CUSTOMY FLOW: WAVE RADAR LEVEL TRANSMITTERS	TRANSFER LIQUID LEVEL, GUIDED WAVE RADAR (GWR) TYPE, GUIDED WAVE RADAR (GWR) LEVEL TRANSMITTERS	Instrumentation and IT	East Europe																
9258	6000009831	CUSTOMY METER: TURBINE: LIQUID	FLOWMETER TURBINE: CUSTODY TRANSFER LIQUID TYPE, ANY, 34-SAMMS-117	Instrumentation and IT	East Europe																
9258	6000009831	CUSTOMY METER: TURBINE: LIQUID	FLOWMETER TURBINE: CUSTODY TRANSFER LIQUID TYPE, ANY, 34-SAMMS-117	Instrumentation and IT	East Europe																
10285	6000009832	CUSTOMY METER: POS. DISPL.: LIQUID	FLOWMETER POSITIVE DISPLACEMENT: CUSTODY TRANSFER LIQUID TYPE, ANY, 34-SAMMS-118	Instrumentation and IT	East Europe																
10285	6000009832	CUSTOMY METER: POS. DISPL.: LIQUID	FLOWMETER POSITIVE DISPLACEMENT: CUSTODY TRANSFER LIQUID TYPE, ANY, 34-SAMMS-118	Instrumentation and IT	East Europe																
10303	6000009881	CUSTOMY METER: Multi-Path, Ultrasonic: Liquid	FLOWMETER: CUSTODY TRANSFER LIQUID TYPE, CUSTODY TRANSFER LIQUID	Instrumentation and IT	East Europe																
10324	6000009881	CUSTOMY METER: Multi-Path, Ultrasonic: Liquid	FLOWMETER: CUSTODY TRANSFER LIQUID TYPE, CUSTODY TRANSFER LIQUID	Instrumentation and IT	East Europe																
10065	6000009880	METER: UNDO PISTON(SMALL VOLUME), UMI PISTON	METER: UNDO PISTON(SMALL VOLUME) PROVER TYPE, 34-SAMMS-119, FOR LIQUID CUSTODY TRANSFER	Instrumentation and IT	East Europe																
10066	6000009880	METER: UNDO PISTON(SMALL VOLUME), UMI PISTON	METER: UNDO PISTON(SMALL VOLUME) PROVER TYPE, 34-SAMMS-119, FOR LIQUID CUSTODY TRANSFER	Instrumentation and IT	East Europe																
10139	6000009893	CUSTOMY AUTOMATIC SAMPLING, LIQUID	SAMPLER: CUSTODY TRANSFER TYPE, 34-SAMMS-525	Instrumentation and IT	East Europe																
10139	6000009893	CUSTOMY AUTOMATIC SAMPLING, LIQUID	SAMPLER: CUSTODY TRANSFER TYPE, 34-SAMMS-525	Instrumentation and IT	East Europe																
10157	6000009895	CUSTOMY DENSITY METER, GAS OR LIQUID	METER DENSITY: CUSTODY TRANSFER LIQUID TYPE, 34-SAMMS-510	Instrumentation and IT	East Europe																
10157	6000009895	CUSTOMY DENSITY METER, GAS OR LIQUID	METER DENSITY: CUSTODY TRANSFER LIQUID TYPE, 34-SAMMS-510	Instrumentation and IT	East Europe																
10174	6000009898	CUSTOMY CHROMATOGRAPHY: GAS OR LIQUID	CHROMATOGRAPHY PROCESS: FOR CUSTODY TRANSFER CHROMATOGRAPHY ANY DETECTOR, ANY CARRIER, 34-SAMMS-510	Instrumentation and IT	East Europe																
10177	6000009898	CUSTOMY CHROMATOGRAPHY: GAS OR LIQUID	CHROMATOGRAPHY PROCESS: FOR CUSTODY TRANSFER CHROMATOGRAPHY ANY DETECTOR, ANY CARRIER, 34-SAMMS-510	Instrumentation and IT	East Europe																
10313	6000009900	CUSTOMY FLOW: COMP. GAS, PANEL MNTD	COMPUTER FLOW: PANEL MOUNTED TYPE, 34-SAMMS-846, FOR GAS CUSTODY TRANSFER	Instrumentation and IT	East Europe																
10314	6000009900	CUSTOMY FLOW: COMP. GAS, PANEL MNTD	COMPUTER FLOW: PANEL MOUNTED TYPE, 34-SAMMS-846, FOR GAS CUSTODY TRANSFER	Instrumentation and IT	East Europe																
10312	6000009901	CUSTOMY FLOW: COMP. LIQUID, FIELD MNT	COMPUTER FLOW: FIELD MOUNTED TYPE, 34-SAMMS-841, 34-SAMMS-846, FOR LIQUID AND GAS CUSTODY TRANSFER	Instrumentation and IT	East Europe																
10313	6000009902	CUSTOMY FLOW: COMP. LIQUID, FIELD MNT	COMPUTER FLOW: FIELD MOUNTED TYPE, 34-SAMMS-846, FOR GAS CUSTODY TRANSFER	Instrumentation and IT	East Europe																
10312	6000009902	CUSTOMY FLOW: COMP. LIQUID, FIELD MOUNTED	COMPUTER FLOW: FIELD MOUNTED TYPE, 34-SAMMS-846, FOR GAS CUSTODY TRANSFER	Instrumentation and IT	East Europe																
10315	6000009909	CUSTOMY TANK MANAGEMENT SYSTEM, RADAR	COMPUTER: FOR CUSTODY TRANSFER 34-SAMMS-321, CUSTODY TANK MANAGEMENT SYSTEM, RADAR	Instrumentation and IT	East Europe																
10315	6000009909	CUSTOMY TANK MANAGEMENT SYSTEM, RADAR	COMPUTER: FOR CUSTODY TRANSFER 34-SAMMS-321, CUSTODY TANK MANAGEMENT SYSTEM, RADAR	Instrumentation and IT	East Europe																
9907	6000009917	CUSTOMY SYSTEM: TRUCK LOADING, POS DISP	SYSTEM: METERING: CUSTODY TRANSFER METERING TYPE, 34-SAMMS-167, TRUCK LOADING, POS DISP, TRUCK LOADING, PO METER, TRUCK LOADING, CORIOLIS METER	Instrumentation and IT	East Europe																
9910	6000009917	CUSTOMY SYSTEM: TRUCK LOADING, POS DISP	SYSTEM: METERING: CUSTODY TRANSFER METERING TYPE, 34-SAMMS-167, TRUCK LOADING, POS DISP, TRUCK LOADING, PO METER, TRUCK LOADING, CORIOLIS METER	Instrumentation and IT	East Europe																
9812	6000009918	CUSTOMY SYS: TRUCK UNLOADING, POS DISP	SYSTEM: METERING: CUSTODY TRANSFER METERING TYPE, 34-SAMMS-168, TRUCK UNLOADING, POS DISP	Instrumentation and IT	East Europe																
9815	6000009918	CUSTOMY SYS: TRUCK UNLOADING, POS DISP	SYSTEM: METERING: CUSTODY TRANSFER METERING TYPE, 34-SAMMS-168, TRUCK UNLOADING, POS DISP	Instrumentation and IT	East Europe																
9233	6000010781	FOUNDATION FIELDS (FF) BLOCKS	BLOCK: FOUNDATION FIELDS (FF) WIRING TYPE, INCLUDING POWER SUPPLIES, FOR USE WITH FOUNDATION FIELD-BUS INSTRUMENTS ONLY	Instrumentation and IT	East Europe																
9234	6000010781	FOUNDATION FIELDS (FF) BLOCKS	BLOCK: FOUNDATION FIELDS (FF) WIRING TYPE, INCLUDING POWER SUPPLIES, FOR USE WITH FOUNDATION FIELD-BUS INSTRUMENTS ONLY	Instrumentation and IT	East Europe																
9250	6000010782	CONTROLLER: SMART VALVE POSITION TYPE	CONTROLLER: SMART VALVE POSITION TYPE, ANY RANGE, 34-SAMMS-634, FOR USE WITH EMERGENCY SHUTDOWN VALVES.	Instrumentation and IT	East Europe																
9251	6000010782	CONTROLLER: SMART VALVE POSITION TYPE	CONTROLLER: SMART VALVE POSITION TYPE, ANY RANGE, 34-SAMMS-634, FOR USE WITH EMERGENCY SHUTDOWN VALVES.	Instrumentation and IT	East Europe																
10033	6000010821	ACTUATOR: VALVE: ELECTRIC: FAILSAFE	ACTUATOR VALVE ELECTRIC: SIZE ANY, ACTION, 34-SAMMS-716, ELECTRIC ACTUATOR FOR OPERATING VALVE, FAILSAFE DESIGN	Instrumentation and IT	East Europe																
10034	6000010821	ACTUATOR: VALVE: ELECTRIC: FAILSAFE	ACTUATOR VALVE ELECTRIC: SIZE ANY, ACTION, 34-SAMMS-716, ELECTRIC ACTUATOR FOR OPERATING VALVE, FAILSAFE DESIGN	Instrumentation and IT	East Europe																
10101	6000012803	VALVE: RELIEF: SURGE PILOT OPERATED	VALVE RELIEF: SIZE ANY END CONN, ANY SUPPLY, ANY, SAES-1+605, SURGE, PILOT OPERATED TYPE, FACTORY TESTING IS REQUIRED FOR COMPLEX RATE-OF-RISE OR MODULATING VALVES.	Instrumentation and IT	East Europe																
10101	6000012803	VALVE: RELIEF: SURGE PILOT OPERATED	VALVE RELIEF: SIZE ANY END CONN, ANY SUPPLY, ANY, SAES-1+605, SURGE, PILOT OPERATED TYPE, FACTORY TESTING IS REQUIRED FOR COMPLEX RATE-OF-RISE OR MODULATING VALVES.	Instrumentation and IT	East Europe																
10069	6000013000	Multiplexer: Foundation Fieldbus (FF)	MULTIPLEXER: FOUNDATION FIELDS (FF) TYPE, SAES-1+904-AA MULTI-INPUT TEMPERATURE	Instrumentation and IT	East Europe																
10069	6000013000	Multiplexer: Foundation Fieldbus (FF)	MULTIPLEXER: FOUNDATION FIELDS (FF) TYPE, SAES-1+904-AA MULTI-INPUT TEMPERATURE	Instrumentation and IT	East Europe																
10067	600013921	ANALYZER: Proc. Photometer/Spectrometer	ANALYZER: ANY RANGE, 34-SAMMS-515, PROCESS PHOTOMETERS AND SPECTROMETERS INCLUDING TUNABLE DIODE (EXTRACTIVE)	Instrumentation and IT	East Europe																
10067	600013921	ANALYZER: Proc. Photometer/Spectrometer	ANALYZER: ANY RANGE, 34-SAMMS-515, PROCESS PHOTOMETERS AND SPECTROMETERS INCLUDING TUNABLE DIODE (EXTRACTIVE)	Instrumentation and IT	East Europe																
9271	6000013923	CABLE: FOUNDATION FIELDSBUS	CABLE: ANY TYPE, 34-SAMMS-913, CABLE, FOUNDATION FIELDSBUS	Instrumentation and IT	East Europe																
9272	6000013923	CABLE: FOUNDATION FIELDSBUS	CABLE: ANY TYPE, 34-SAMMS-913, CABLE, FOUNDATION FIELDSBUS	Instrumentation and IT	East Europe																
10249	6000014021	Analyzer: Physical Property	ANALYZER: PHYSICAL PROPERTY TYPE, ANY RANGE, (EXAMPLE: BOILING POINT, FLASH POINT, POUR POINT, CPP, RVP, COLOR, CLOUD POINT, FREEZE POINT, OCTANE, AND VISCOSITY )	Instrumentation and IT	East Europe																
10250	6000014021	Analyzer: Physical Property	ANALYZER: PHYSICAL PROPERTY TYPE, ANY RANGE, (EXAMPLE: BOILING POINT, FLASH POINT, POUR POINT, CPP, RVP, COLOR, CLOUD POINT, FREEZE POINT, OCTANE, AND VISCOSITY )	Instrumentation and IT	East Europe																
9413	6000014614	CUSTOMY TANK GAUGING SYSTEM, RADAR	GAUGE TANK LEVEL: RADAR CUSTODY TRANSFER TYPE, ANY RANGE, 34-SAMMS-321, SAES-Y-301, RADAR TANK GAUGING SYSTEMS FOR CUSTODY TRANSFER	Instrumentation and IT	East Europe																
9413	6000014614	CUSTOMY TANK GAUGING SYSTEM, RADAR	GAUGE TANK LEVEL: RADAR CUSTODY TRANSFER TYPE, ANY RANGE, 34-SAMMS-321, SAES-Y-301, RADAR TANK GAUGING SYSTEMS FOR CUSTODY TRANSFER	Instrumentation and IT	East Europe																
10119	6000014631	CABLE: SUBMARINE FIBER OPTIC	CABLE: SUBMARINE FIBER OPTIC CABLE TYPE, STAND-ALONE SUBMARINE FIBER OPTICAL CABLE, 18-SAMMS-008	Instrumentation and IT	East Europe																
10119	6000014631	CABLE: SUBMARINE FIBER OPTIC	CABLE: SUBMARINE FIBER OPTIC CABLE TYPE, STAND-ALONE SUBMARINE FIBER OPTICAL CABLE, 18-SAMMS-008	Instrumentation and IT	East Europe																
9291	6000014631	CABLE: SUBMARINE FIBER OPTIC	CABLE: SUBMARINE FIBER OPTIC CABLE TYPE, STAND-ALONE SUBMARINE FIBER OPTICAL CABLE, 18-SAMMS-008	Instrumentation and IT	East Europe																
9120	6000014890	REAL-TIME TRANSPARENT MODEL PLDS	DETECTOR LEAK: RTTM METHODS TYPE, FOR PIPELINES SAES-2-003, SYSTEMS USE MATHEMATICAL MODELS OF THE FLOW WITHIN A PIPELINE TO DETECT THE LEAK. FOR PIPELINE LEAK DETECTION SYSTEM (PLDS) APPLICATIONS.	Instrumentation and IT	East Europe																
9202	6000014890	REAL-TIME TRANSPARENT MODEL PLDS	DETECTOR LEAK: RTTM METHODS TYPE, FOR PIPELINES SAES-2-003, SYSTEMS USE MATHEMATICAL MODELS OF THE FLOW WITHIN A PIPELINE TO DETECT THE LEAK. FOR PIPELINE LEAK DETECTION SYSTEM (PLDS) APPLICATIONS.	Instrumentation and IT	East Europe </tr <tr> <td>9311</td> <td>6000014891</td> <td>ACOUSTIC PRESSURE WAVES PLDS</td> <td>DETECTOR LEAK: NEGATIVE PRESSURE WAVE (ACOUSTIC) TYPE, FOR PIPELINE SAES-2-003, THE ACOUSTIC PRESSURE WAVE METHOD ANALYZES THE REFLECTION WAVES PRODUCED WHEN A LEAK OCCURS. FOR PIPELINE LEAK DETECTION SYSTEM (PLDS) APPLICATIONS.</td> <td>Instrumentation and IT</td> <td>East Europe</td> </tr> <tr> <td>9311</td> <td>6000014891</td> <td>ACOUSTIC PRESSURE WAVES PLDS</td> <td>DETECTOR LEAK: NEGATIVE PRESSURE WAVE (ACOUSTIC) TYPE, FOR PIPELINE SAES-2-003, THE ACOUSTIC PRESSURE WAVE METHOD ANALYZES THE REFLECTION WAVES PRODUCED WHEN A LEAK OCCURS. FOR PIPELINE LEAK DETECTION SYSTEM (PLDS) APPLICATIONS.</td> <td>Instrumentation and IT</td> <td>East Europe</td> </tr> <tr> <td>9333</td> <td>6000014893</td> <td>FIBER OPTIC SENSING PLDS</td> <td>DETECTOR LEAK: FIBER OPT</td></tr>	9311	6000014891	ACOUSTIC PRESSURE WAVES PLDS	DETECTOR LEAK: NEGATIVE PRESSURE WAVE (ACOUSTIC) TYPE, FOR PIPELINE SAES-2-003, THE ACOUSTIC PRESSURE WAVE METHOD ANALYZES THE REFLECTION WAVES PRODUCED WHEN A LEAK OCCURS. FOR PIPELINE LEAK DETECTION SYSTEM (PLDS) APPLICATIONS.	Instrumentation and IT	East Europe	9311	6000014891	ACOUSTIC PRESSURE WAVES PLDS	DETECTOR LEAK: NEGATIVE PRESSURE WAVE (ACOUSTIC) TYPE, FOR PIPELINE SAES-2-003, THE ACOUSTIC PRESSURE WAVE METHOD ANALYZES THE REFLECTION WAVES PRODUCED WHEN A LEAK OCCURS. FOR PIPELINE LEAK DETECTION SYSTEM (PLDS) APPLICATIONS.	Instrumentation and IT	East Europe	9333	6000014893	FIBER OPTIC SENSING PLDS	DETECTOR LEAK: FIBER OPT
9311	6000014891	ACOUSTIC PRESSURE WAVES PLDS	DETECTOR LEAK: NEGATIVE PRESSURE WAVE (ACOUSTIC) TYPE, FOR PIPELINE SAES-2-003, THE ACOUSTIC PRESSURE WAVE METHOD ANALYZES THE REFLECTION WAVES PRODUCED WHEN A LEAK OCCURS. FOR PIPELINE LEAK DETECTION SYSTEM (PLDS) APPLICATIONS.	Instrumentation and IT	East Europe																
9311	6000014891	ACOUSTIC PRESSURE WAVES PLDS	DETECTOR LEAK: NEGATIVE PRESSURE WAVE (ACOUSTIC) TYPE, FOR PIPELINE SAES-2-003, THE ACOUSTIC PRESSURE WAVE METHOD ANALYZES THE REFLECTION WAVES PRODUCED WHEN A LEAK OCCURS. FOR PIPELINE LEAK DETECTION SYSTEM (PLDS) APPLICATIONS.	Instrumentation and IT	East Europe																
9333	6000014893	FIBER OPTIC SENSING PLDS	DETECTOR LEAK: FIBER OPT																		

10089	600008580	FILTER; MICRON FILTERS FOR WATER SERVICE	FILTER; WATER MEMBRANE FILTERS TYPE MICRON FILTERS FOR WATER SERVICE CROSS-FLOW, DEAD-END CARTRIDGE FILTERS NOMINAL OR ABSOLUTE 1-100 MICRON. MATERIAL: STAINLESS STEEL, POLYPROPYLENE, FLEATED POLYPROPYLENE, POLYESTER, RESIN BONDED CELLULOSE. PPSF, POLYSILOXANE, ULTRA-FILTERS FOR WATER SERVICE CONFIGURATION: CROSS-FLOW SPIRAL WOUND, HOLLOW FIBER/CAPILLARY, PLATE-AND-FRAME POLYSILOXANE, POLYETHERSULFONE, POLYACRYLONITRILE, CELLULOSE ACETATE. RATING: < 200 PSIG. CLASSIFICATION: WATER FILTRATION, MEMBRANE FILTRATION, CARTRIDGE FILTRATION. CONFIGURATION: MATERIAL: RATING: SIZE:	Others	East Europe
9550	600013337	HOOD; FLAME, COMMERCIAL COOKING	HOOD; FLAME, COMMERCIAL COOKING TYPE ANSI/ASHRAE 154	Others	East Europe
9551	600013337	HOOD; FLAME, COMMERCIAL COOKING	HOOD; FLAME, COMMERCIAL COOKING TYPE ANSI/ASHRAE 154	Others	East Europe
9865	600014524	HUMIDIFIER; HVAC; DUCTED	HUMIDIFIER; ELECTRIC, GAS, OR HOT WATER COMMERCIAL/INDUSTRIAL TYPE, ANY, 110 VAC-460 VAC, 60 HZ, ANSI/AHRI-640/ANSI-AHRI-640 CERTIFICATE	Others	East Europe
9866	600014524	HUMIDIFIER; HVAC; DUCTED	HUMIDIFIER; ELECTRIC, GAS, OR HOT WATER COMMERCIAL/INDUSTRIAL TYPE, ANY, 110 VAC-460 VAC, 60 HZ, ANSI/AHRI-640/ANSI-AHRI-640 CERTIFICATE	Others	East Europe
10625	600014710	FLANGE; PIPE; CONNECTOR, MECHANICAL END	FLANGE PIPE; CONNECTOR TYPE ANY NPS ANY MECHANICAL END CONNECTORS	Others	East Europe
10626	600014710	FLANGE; PIPE; CONNECTOR, MECHANICAL END	FLANGE PIPE; CONNECTOR TYPE ANY NPS ANY MECHANICAL END CONNECTORS	Others	East Europe
9530	600014911	SEPARATOR; AIR AND DIRT	SEPARATOR; SEPARATOR, AIR AND DIRT TYPE ASME SECTION VIII, DIVISION 1	Others	East Europe
9531	600014911	SEPARATOR; AIR AND DIRT	SEPARATOR; SEPARATOR, AIR AND DIRT TYPE ASME SECTION VIII, DIVISION 1	Others	East Europe
9510	600016831	FIRE AND GAS DAMPER (OFFSHORE)	DAMPER, FIRE & GAS DAMPER-OFFSHORE TYPE SIZE VARIES, STAINLESS STEEL 316L SHEET OR BETTER, INTERNATIONAL MARITIME ORGANIZATION (IMO) & SAFETY OF LIFE AT SEA [SOAS] EN 1751, FIRE & GAS DAMPER FOR OFFSHORE [FGD-O] APPLICATIONS SHALL CONFORM TO THE FOLLOWING: 1) APPROVED 3RD-PARTY CERTIFICATE TO INTERNATIONAL MARITIME ORGANIZATION (IMO) AND SAFETY OF LIFE AT SEA [SOAS]. 2) FGD-O SHALL BE CONSTRUCTED AND ASSEMBLED IN ITS ENTIRETY AT FACTORY, INCLUDING ACTUATOR, INSULATION AND APPURTENANCES. 3) FGD-O SHALL BE CLASS 3 TYPE IN ACCORDANCE WITH EN 1751, MULTI-LEAF, OPPOSED BLADE TYPE COMPLETE WITH OPERATING CONTROLZMR00301 222 (PRC) AND INCORPORATING SPRING SIDE SEALS. 4) FGD-O CONSTRUCTION INSIDE BATTERY ROOMS SHALL BE CONSTRUCTED OF STAINLESS STEEL 316L SHEET OR BETTER. SMALL BLADES SHALL BE TOTALLY ENCLOSED WITHIN THE CASING WITH THE FGD-O IN THE FULLY OPEN POSITION. 6) FGD-O CLOSING TIME SHALL NOT BE GREATER THAN 3 SEC. 7) FGD-O SHALL BE EQUIPPED WITH FUSIBLE LINKS THAT ARE RATED FOR TEMPERATURES AS PER SOAS/IMO. 8) LOCAL VISUAL INDICATION OF FGD-O OPEN OR CLOSE STATUS SHALL BE PROVIDED BY A VISIBLE POINTER. 9) ENGRAVED NAMEPLATES SHALL BE MECHANICALLY FIXED TO EACH FGD-O WHICH SHALL INDICATE, INFORMATION THAT INCLUDE, BUT NOT LIMITED TO THE FOLLOWING: A) MANUFACTURER NAME B) SERIAL NUMBER C) TAG NUMBER D) PROJECT REFERENCE E) YEAR OF MANUFACTURE F) AIRFLOW G) SIZE H) WEIGHT I) FIRE RATING J) DIRECTION OF AIRFLOW	Others	East Europe
9511	600016831	FIRE AND GAS DAMPER (OFFSHORE)	DAMPER, FIRE & GAS DAMPER-OFFSHORE TYPE SIZE VARIES, STAINLESS STEEL 316L SHEET OR BETTER, INTERNATIONAL MARITIME ORGANIZATION (IMO) & SAFETY OF LIFE AT SEA [SOAS] EN 1751, FIRE & GAS DAMPER FOR OFFSHORE [FGD-O] APPLICATIONS SHALL CONFORM TO THE FOLLOWING: 1) APPROVED 3RD-PARTY CERTIFICATE TO INTERNATIONAL MARITIME ORGANIZATION (IMO) AND SAFETY OF LIFE AT SEA [SOAS]. 2) FGD-O SHALL BE CONSTRUCTED AND ASSEMBLED IN ITS ENTIRETY AT FACTORY, INCLUDING ACTUATOR, INSULATION AND APPURTENANCES. 3) FGD-O SHALL BE CLASS 3 TYPE IN ACCORDANCE WITH EN 1751, MULTI-LEAF, OPPOSED BLADE TYPE COMPLETE WITH OPERATING CONTROLZMR00301 222 (PRC) AND INCORPORATING SPRING SIDE SEALS. 4) FGD-O CONSTRUCTION INSIDE BATTERY ROOMS SHALL BE CONSTRUCTED OF STAINLESS STEEL 316L SHEET OR BETTER. SMALL BLADES SHALL BE TOTALLY ENCLOSED WITHIN THE CASING WITH THE FGD-O IN THE FULLY OPEN POSITION. 6) FGD-O CLOSING TIME SHALL NOT BE GREATER THAN 3 SEC. 7) FGD-O SHALL BE EQUIPPED WITH FUSIBLE LINKS THAT ARE RATED FOR TEMPERATURES AS PER SOAS/IMO. 8) LOCAL VISUAL INDICATION OF FGD-O OPEN OR CLOSE STATUS SHALL BE PROVIDED BY A VISIBLE POINTER. 9) ENGRAVED NAMEPLATES SHALL BE MECHANICALLY FIXED TO EACH FGD-O WHICH SHALL INDICATE, INFORMATION THAT INCLUDE, BUT NOT LIMITED TO THE FOLLOWING: A) MANUFACTURER NAME B) SERIAL NUMBER C) TAG NUMBER D) PROJECT REFERENCE E) YEAR OF MANUFACTURE F) AIRFLOW G) SIZE H) WEIGHT I) FIRE RATING J) DIRECTION OF AIRFLOW	Others	East Europe
8530	600000030	PIPE; NON-METALLIC, THERMOPLASTIC, CPVC	PIPE NON-METALLIC, ANY NPS, CHLORINATED POLYVINYL CHLORIDE (CPVC) ISO 15877 ASTM F411, SOLID-WALL, MAXIMUM TEMPERATURE IS 82 C HOT AND COLD WATER INSTALLATIONS AND FOR HEATING SYSTEM INSTALLATIONS SYSTEM. HOT AND COLD WATER INSTALLATIONS WITHIN BUILDINGS, WATER FOR HUMAN CONSUMPTION, WATER FOR WASTEWATER SURFED	Pipe & OCTG	East Europe
10339	600000049	PIPE; METALLIC, HW CLASS B FOR NON SOUR	PIPE METALLIC, ALL SIZE NPS, ANY STEEL, GR. GRADE B THRU X70, HW, API 5L, 01-SAMSS-333 CLASS B, NON SOUR SERVICE	Pipe & OCTG	East Europe
10340	600000049	PIPE; METALLIC, HW CLASS B FOR NON SOUR	PIPE METALLIC, ALL SIZE NPS, ANY STEEL, GR. GRADE B THRU X70, HW, API 5L, 01-SAMSS-333 CLASS B, NON SOUR SERVICE	Pipe & OCTG	East Europe
9715	600007703	CASING; OCTG; HIGH NICKEL; SEAMLESS	CASING OCTG; HIGH NICKEL ALLOY STAINLESS STEEL SEAMLESS, API SPEC 5CTO 13600 40-SAMSS-006, GR UNS N80208 OR EQUIVALENT, SIZE ANY, PREMIUM THREAD END CONN, AA, COLLAPSE TEST PER API WITH AB, ONE SAMPLE TESTED PER 200 JOINTS	Pipe & OCTG	East Europe
8541	600014681	SERVICE; WET- TYPE COMPOSITE REPAIR EXT.	SERVICE; WET- TYPE THE MOST COMPOSITE FIBER REINFORCED COMPOSITE. TYPE SAEP-345, ASME PCC2 ISO 24817, USE FOR WATER, HYDROCARBON, CHEMICALS PLANT PIPING AND PIPELINES, SUITABLE FOR EXTERNAL CORROSION UP TO 80 PERCENT METAL LOSS. FOR PLANT PIPING AND FITTINGS, IT SHALL BE REPAIR WITH A TEMPORARY REPAIR WITH A PRIOR APPROVAL FROM NONMETALLIC SCC.	Pipe & OCTG	East Europe
10357	600000097	JOINT; PIPE; EXPANSION; ANY METAL	JOINT EXPANSION; SIZE ANY ANY LG-ASME B16.5	Static Equipment	East Europe
10358	600000097	JOINT; PIPE; EXPANSION; ANY METAL	JOINT EXPANSION; SIZE ANY ANY LG-ASME B16.5	Static Equipment	East Europe
10375	600000134	SLEEVE; PIPE; TWO HALVES; BOLTED FLANGED	SLEEVE; PIPE; TWO HALVES; ANY NOM PIPE, STEEL, ANY WP, FOR PIPE REPAIR	Static Equipment	East Europe
10376	600000134	SLEEVE; PIPE; TWO HALVES; BOLTED FLANGED	SLEEVE PIPE BOLTED; ANY NOM PIPE, STEEL, ANY WP, FOR PIPE REPAIR	Static Equipment	East Europe
10380	600000150	TEE; PIPE; SPLIT TEE; HOT TAPPING; CS	TEE PIPE; ANY NPS, STEEL, EXTENDED OR WELDED BRANCH, 02-SAMSS-006, SPLIT TEE, FLANGE WELDED TO BRANCH, FOR HOT TAPPING	Static Equipment	East Europe
10391	600000150	TEE; PIPE; SPLIT TEE; HOT TAPPING; CS	TEE PIPE; ANY NPS, STEEL, EXTENDED OR WELDED BRANCH, 02-SAMSS-006, SPLIT TEE, FLANGE WELDED TO BRANCH, FOR HOT TAPPING	Static Equipment	East Europe
10449	600000296	VALVE; GATE; WEDGE OR DBL DISC; UP TO 12	VALVE GATE; SIZE UP TO NPS 12 ANY RATING, ALLENDS SUPPLY, CAST OR DUCTILE IRON BODY, 04-SAMSS-035, AA/WVA, WITH OR WITHOUT ACTUATOR	Static Equipment	East Europe
10450	600000296	VALVE; GATE; WEDGE OR DBL DISC; UP TO 12	VALVE GATE; SIZE UP TO NPS 12 ANY RATING, ALLENDS SUPPLY, CAST OR DUCTILE IRON BODY, 04-SAMSS-035, AA/WVA, WITH OR WITHOUT ACTUATOR	Static Equipment	East Europe
10464	600000315	VALVE; CHECK; AUTOMATIC PLUG AND CAGE; H	VALVE CHECK; PLUG-AND-CAGE SINGLE STAGE TRIM TYPE, UP TO 6 INCH MAXIMUM DRIFICE, BODY, PR 10,000 PSIG, FLANGED HUBBED OR BUTTWELDED END CONN, STEEL BODY, 04-SAMSS-055, ISO 10423, WITH OR WITHOUT ACTUATOR	Static Equipment	East Europe
9349	600001821	AIR HANDLING UNIT; AHU; CHILLED WATER OR	AIR HANDLING UNIT; AHU TYPE, CHILLED WATER OR DIRECT EXPANSION, ONSHORE ALL SIZES AND OFFSHORE LESS THAN 10 TONS COOLING, MANUFACTURER STANDARD	Static Equipment	East Europe
9345	600001821	AIR HANDLING UNIT; AHU; CHILLED WATER OR	AIR HANDLING UNIT; AHU TYPE, CHILLED WATER OR DIRECT EXPANSION, ONSHORE ALL SIZES AND OFFSHORE LESS THAN 10 TONS COOLING, MANUFACTURER STANDARD	Static Equipment	East Europe
9376	600001822	AIR CONDITIONING UNIT; SELF CONTAINED; 0	AIR CONDITIONING UNIT; SELF CONTAINED TYPE, PACKAGED UNIT, CERTIFIED TO AHRJ 340 AND UL 1995, STD	Static Equipment	East Europe
9377	600001822	AIR CONDITIONING UNIT; SELF CONTAINED; 0	AIR CONDITIONING UNIT; SELF CONTAINED TYPE, PACKAGED UNIT, CERTIFIED TO AHRJ 340 AND UL 1995, STD	Static Equipment	East Europe
9402	600001823	AIR CONDITIONING UNIT; PACKAGED UNIT TR	AIR CONDITIONING UNIT; PACKAGED UNIT TRAILERIZED TYPE, AIR COOLED, R-22 OR R-134A, MANUFACTURER STANDARD	Static Equipment	East Europe
9409	600001823	AIR CONDITIONING UNIT; PACKAGED UNIT TR	AIR CONDITIONING UNIT; PACKAGED UNIT TRAILERIZED TYPE, AIR COOLED, R-22 OR R-134A, MANUFACTURER STANDARD	Static Equipment	East Europe
9438	600001826	A/C Unit, min split, DE below 5.5 Tons	AIR CONDITIONING UNIT; AIR CONDITIONING UNIT SPLIT TYPE, LESS THAN 5.5 TON COOLING TONNAGE, DIRECT EXPANSION TYPE, AHR2ZMR00301 222 (PRC)	Static Equipment	East Europe
9433	600001826	A/C Unit, min split, DE below 5.5 Tons	AIR CONDITIONING UNIT; AIR CONDITIONING UNIT SPLIT TYPE, LESS THAN 5.5 TON COOLING TONNAGE, DIRECT EXPANSION TYPE, AHR2ZMR00301 222 (PRC)	Static Equipment	East Europe
9568	600001838	CONTROLLER; PROGRAMMABLE LOGIC; ENERGY M	CONTROLLER PROGRAMMABLE LOGIC; ANY INPUT, ANY OUTPUT, P, SAES-K-013, UL-916 ASHRAE 135, ENERGY MANAGEMENT SYSTEM; BUILDING	Static Equipment	East Europe
9569	600001838	CONTROLLER; PROGRAMMABLE LOGIC; ENERGY M	CONTROLLER PROGRAMMABLE LOGIC; ANY INPUT, ANY OUTPUT, P, SAES-K-013, UL-916 ASHRAE 135, ENERGY MANAGEMENT SYSTEM; BUILDING	Static Equipment	East Europe
9450	600001862	A/C UNIT; SPLIT; DIRECT EXP. 5.5 TO 63 TONS	AIR CONDITIONING UNIT; AIR CONDITIONING UNIT SPLIT DIRECT EXPANSION TYPE, SIZES 5.5 TO 63 COOLING TONNAGE COOLING, AHRJ 340/360, UL1995, EER VALUE SHALL BE IN ACCORDANCE WITH THE EER TABLE IN SAES-K-001.	Static Equipment	East Europe
9451	600001862	A/C UNIT; SPLIT; DIRECT EXP. 5.5 TO 63 TONS	AIR CONDITIONING UNIT; AIR CONDITIONING UNIT SPLIT DIRECT EXPANSION TYPE, SIZES 5.5 TO 63 COOLING TONNAGE COOLING, AHRJ 340/360, UL1995, EER VALUE SHALL BE IN ACCORDANCE WITH THE EER TABLE IN SAES-K-001.	Static Equipment	East Europe
9473	600001881	AIR CONDITIONING UNIT; AIRCONDITIONING AND	AIR CONDITIONING UNIT; AIRCONDITIONING AND PROCESS REFRIGERATION SYSTEMS TYPE, ONSHORE ALL SIZES, OFFSHORE LESS THAN 10 TONS. COOLING, AHRJ-210/240 (< 5.5 TONS), AHRJ EXPLOSION PROOF	Static Equipment	East Europe
9474	600001881	AIR CONDITIONING UNIT; AIRCONDITIONING AND	AIR CONDITIONING UNIT; AIRCONDITIONING AND PROCESS REFRIGERATION SYSTEMS TYPE, ONSHORE ALL SIZES, OFFSHORE LESS THAN 10 TONS. COOLING, AHRJ-210/240 (< 5.5 TONS), AHRJ EXPLOSION PROOF	Static Equipment	East Europe
8952	600002481	TANK; FIBER GLASS; 32-SAMSS-002	TANK; ANY TYPE, ANY FIBER GLASS, 32-SAMSS-002	Static Equipment	East Europe
9993	600002515	SKID WATER DISINFECTION SYSTEMS	GENERATOR; WATER DISINFECTION TYPE HYPOCHLORITE, WATER DISINFECTION SYSTEMS INCLUDING: HYPOCHLORINATION, CHLORINE SYSTEMS, CHLORINE DIOXIDE, BROMINE SYSTEMS, UV SYSTEMS, OZONE SYSTEMS, ANY OTHER DISINFECTING SYSTEMS. MERGE WITH 6000020517.	Static Equipment	East Europe
9995	600002515	SKID WATER DISINFECTION SYSTEMS	GENERATOR; WATER DISINFECTION TYPE HYPOCHLORITE, WATER DISINFECTION SYSTEMS INCLUDING: HYPOCHLORINATION, CHLORINE SYSTEMS, CHLORINE DIOXIDE, BROMINE SYSTEMS, UV SYSTEMS, OZONE SYSTEMS, ANY OTHER DISINFECTING SYSTEMS. MERGE WITH 6000020517.	Static Equipment	East Europe
10570	600002879	SKID; DRYER, INSTRUMENT AIR & COMPRESSED	SKID; DRYER TYPE, 32-SAMSS-038, INSTRUMENT AIR & COMPRESSED GAS, PRESSURE VESSELS AND MAIN COMPONENTS TO BE SOURCED FROM APPROVED VENDORS PER THE APPLICABLE SCOMS AND SAMSS.	Static Equipment	East Europe
10571	600002879	SKID; DRYER, INSTRUMENT AIR & COMPRESSED	SKID; DRYER TYPE, 32-SAMSS-038, INSTRUMENT AIR & COMPRESSED GAS, PRESSURE VESSELS AND MAIN COMPONENTS TO BE SOURCED FROM APPROVED VENDORS PER THE APPLICABLE SCOMS AND SAMSS.	Static Equipment	East Europe
10408	600009264	JOINT; METAL TO METAL SEAL	COUPLING PIPE; METAL TO METAL (POSITIVE OR NEGATIVE) SEAL MECHANICAL TERMINAL, IN NPS, OY STEEL, MM (IN, PSI) SUPPLY, M, GED MLESS LIGHT, L, URAL FINISH, ASME, ASME, (IN) (IN), ITIVE OR NEGATIVE ITIVE OR NEGATIVE JOINT; METAL TO METAL SEAL MECHANICAL TYPE, CS/SA (ALLOY STEEL), (IN) (IN), ITIVE OR NEGATIVE ITIVE OR NEGATIVE	Static Equipment	East Europe
10409	600009264	JOINT; METAL TO METAL SEAL	COUPLING PIPE; METAL TO METAL (POSITIVE OR NEGATIVE) SEAL MECHANICAL TERMINAL, IN NPS, OY STEEL, MM (IN, PSI) SUPPLY, M, GED MLESS LIGHT, L, URAL FINISH, ASME, ASME, (IN) (IN), ITIVE OR NEGATIVE ITIVE OR NEGATIVE JOINT; METAL TO METAL SEAL MECHANICAL TYPE, CS/SA (ALLOY STEEL), (IN) (IN), ITIVE OR NEGATIVE ITIVE OR NEGATIVE	Static Equipment	East Europe
10594	600001206	SKID; FILTRATION SYSTEM	SKID; 32-SAMSS-038, SAES-A-017, IGEN AND ASSEMBLY ROFCARBON FILTRATION SYSTEM	Static Equipment	East Europe
10595	600001206	SKID; FILTRATION SYSTEM	SKID; 32-SAMSS-038, SAES-A-017, IGEN AND ASSEMBLY ROFCARBON FILTRATION SYSTEM	Static Equipment	East Europe
9886	600012733	CHILLER; ABSORPTION; WATER COOLED	CHILLER; ANY TYPE, ANY SUPPLY, AHRJ 560, L-1995 ASHRAE 90.1, ABSORPTION, SUSTAINABLE, HIGH EFFICIENCY, COMPRESSOR-LESS, WATER COOLED DIRECT FIRED OR EXCESS/WASTE STEAM/HEAT FOR HVAC APPLICATION.	Static Equipment	East Europe
9896	600012733	CHILLER; ABSORPTION; WATER COOLED	CHILLER; ANY TYPE, ANY SUPPLY, AHRJ 560, L-1995 ASHRAE 90.1, ABSORPTION, SUSTAINABLE, HIGH EFFICIENCY, COMPRESSOR-LESS, WATER COOLED DIRECT FIRED OR EXCESS/WASTE STEAM/HEAT FOR HVAC APPLICATION.	Static Equipment	East Europe
9480	600001333	AIR CONDITIONING UNIT; SPLIT	AIR CONDITIONING UNIT; SPLIT TYPE, DIRECT EXPANSION, R-22 OR R-134A, ASHRAE-127, JUL-1995, PRECISION COOLING FOR CONTROL, COMMUNICATION, AND DATA PROCESSING	Static Equipment	East Europe
9491	600001333	AIR CONDITIONING UNIT; SPLIT	AIR CONDITIONING UNIT; SPLIT TYPE, DIRECT EXPANSION, R-22 OR R-134A, ASHRAE-127, JUL-1995, PRECISION COOLING FOR CONTROL, COMMUNICATION, AND DATA PROCESSING	Static Equipment	East Europe
10487	600001491	VALVE; BUTTERFLY, BALL OR CHECK TYPE, SIZE NPS 2 THRU 20, ASME CLASS 150 & 300 SUPPLY FLANGED END CONN, COMPOSITE (NON-METALLIC)ZMR00301 222 (PRC)	VALVE; BUTTERFLY, BALL OR CHECK TYPE, SIZE NPS 2 THRU 20, ASME CLASS 150 & 300 SUPPLY FLANGED END CONN, COMPOSITE (NON-METALLIC)ZMR00301 222 (PRC)	Static Equipment	East Europe
10488	600001491	VALVE; BUTTERFLY, BALL OR CHECK TYPE, SIZE NPS 2 THRU 20, ASME CLASS 150 & 300 SUPPLY FLANGED END CONN, COMPOSITE (NON-METALLIC)ZMR00301 222 (PRC)	VALVE; BUTTERFLY, BALL OR CHECK TYPE, SIZE NPS 2 THRU 20, ASME CLASS 150 & 300 SUPPLY FLANGED END CONN, COMPOSITE (NON-METALLIC)ZMR00301 222 (PRC)	Static Equipment	East Europe
10426	600014971	COUPLER; LPG LOADING, INCLUDE VAPOR	COUPLER; LPG LOADING TYPE, SIZE ALL SIZES, HARD PIPE TERMINAL, INCLUDE VAPOR AND BREAKAWAY COUPLERS, CONTACT CSD FORZMR00301 222 (PRC) DETAILS	Static Equipment	East Europe
10427	600014971	COUPLER; LPG LOADING, INCLUDE VAPOR	COUPLER; LPG LOADING TYPE, SIZE ALL SIZES, HARD PIPE TERMINAL, INCLUDE VAPOR AND BREAKAWAY COUPLERS, CONTACT CSD FORZMR00301 222 (PRC) DETAILS	Static Equipment	East Europe
10523	600001604	VALVE; CHECK; 1/2 TO 6 IN, 2K-SFSPS, ALPHA	VALVE CHECK; ANY BODY, UP TO 6 INCH MAX DRIFICE, PR 2000-5000 PSI SUPPLY, FLANGED HUBBED OR BUTTWELDED END CONN, ANY BODY, MULTISTAGE TRIM, 04-SAMSS-055, ISO 10423	Static Equipment	East Europe
10653	600001760	SKID; NITROGEN; PRESSURE SWING ADSORPTIO	SKID; NITROGEN ADSORPTION (PSA) SSURE SWING TYPE, 32-SAMSS-038, NITROGEN GENERATION UNIT, PSA (PRESSURE SWING ADSORPTION) TYPE. USES ADSORBENT SUCH AS CARBON MOLECULAR SIEVE. MORE THAN 95% VOLUME PURITY NITROGEN	Static Equipment	East Europe
10654	600001760	SKID; NITROGEN; PRESSURE SWING ADSORPTIO	SKID; NITROGEN ADSORPTION (PSA) SSURE SWING TYPE, 32-SAMSS-038, NITROGEN GENERATION UNIT, PSA (PRESSURE SWING ADSORPTION) TYPE. USES ADSORBENT SUCH AS CARBON MOLECULAR SIEVE. MORE THAN 95% VOLUME PURITY NITROGEN	Static Equipment	East Europe