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ACTIVATED ALUMINA ADSORBENTS

Desiccants		
Spherical desiccant or drying agent for organic liquids and gases; for drying inorganic gases in industrial processes; for drying air in air conditioning; as a desiccant and adsorbent in reconditioning oils; as a chloride scavenger and other special uses; as a bed support.	A-201	1/2"x1/4" (6.4 mm x 12.7 mm) 3x6 mesh (6.7 mm x 3.3 mm) 5x8 mesh (4.0 mm x 2.4 mm) 7x12 mesh (2.8 mm x 1.4 mm)
Spherical activated alumina specifically designed as a high capacity, abrasion resistant desiccant. Its excellent adsorption and desorption characteristics make it especially suitable for heatless (pressure swing) dryers.	D-201	1/2"x1/4" (6.4 mm x 12.7 mm) 3x6 mesh (6.7 mm x 3.3 mm) 5x8 mesh (4.0 mm x 2.4 mm) 7x12 mesh (2.8 mm x 1.4 mm)
Alkylation Defluorination		
Scavenger for high capacity defluorination of butane, propane and alkylate streams produced in the HF alkylation process.	A-202HF ESM-222	1/2"x1/4" (6.4 mm x 12.7 mm) 3x6 mesh (6.7 mm x 3.3 mm) 5x8 mesh (4.0 mm x 2.4 mm) 7x12 mesh (2.8 mm x 1.4 mm)
Higher capacity adsorbent for defluorination of butane, propane and alkylate streams produced in the HF Alkylation Process. Capacities of 30 to 40% more than UOP A-202HF have been demonstrated.	P-188	5x8 mesh (4.0 mm x 2.4 mm) 7x12 mesh (2.8 mm x 1.4 mm)
Reformer HCl Guard		
Scavenger for removing contaminant chlorides from various process streams such as hydrogen gas, methane, ethane, propane, and other various hydrocarbons, both liquids and gases. Typically used in adsorbing chlorides from reformer hydrogen off gases.	A-203CL ESM-203	3x6 mesh (6.7 mm x 3.3 mm) 5x8 mesh (4.0 mm x 2.4 mm) 7x12 mesh (2.8 mm x 1.4 mm)
Choice product for the removal of trace hydrogen chloride on a non-regenerative basis in Reforming Net Gas Chloride Treaters with lower green oil formation.	9139A	3x6 mesh (6.7 mm x 3.3 mm) 5x8 mesh (4.0 mm x 2.4 mm)
Preferred adsorbent for removing trace HCl from olefin-containing hydrocarbon streams. Provides the highest chloride capacity in commercial service, while minimizing green oil and organic chloride formation.	CLR-204	5x8 mesh (4.0 mm x 2.4 mm) 7x12 mesh (2.8 mm x 1.4 mm)
Preferred adsorbent for the removal of trace hydrogen chloride from Liquefied Petroleum Gas (LPG) and hydrocarbon streams.	CLR-011	7x12 mesh (2.8 mm x 1.4 mm)



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Polymer Feed Purification – COS, H₂S, CO₂		
Desiccant, adsorbent, purifier or drying agent for organic liquids and gases. Typical uses include CO ₂ , H ₂ S, COS and H ₂ O removal from ethylene, propane, propylene, isobutane and other organic liquids and gases.	A-204-4	5x8 mesh (4.0 mm x 2.4 mm) 7x12 mesh (2.8 mm x 1.4 mm)
Adsorbent for the removal of oxygenated hydrocarbons (oxygenates), organic sulfur, and nitrogen-based contaminants from olefinic and other reactive hydrocarbon streams. Particularly effective in purifying ethylene and co-monomer feed streams to polyethylene processes.	AZ-200	5x8 mesh (4.0 mm x 2.4 mm) 7x14 mesh (2.8 mm x 1.2 mm)
Adsorbent for the removal of oxygenated hydrocarbons (oxygenates), organic sulfur, and nitrogen-based polar compounds from saturated and unsaturated hydrocarbon streams. Of particular interest is its use in purifying propylene and mixed C ₄ feed streams to catalytic processes, including polypropylene production.	AZ-300	5x8 mesh (4.0 mm x 2.4 mm) 7x14 mesh (2.8 mm x 1.2 mm)
A specialty spherical product designed to adsorb arsine in a guard bed. Specifically formulated to protect sensitive polymerization and other high-activity catalysts by removing trace arsine and phosphine from liquid propylene streams.	GB-238	5x8 mesh (4.0 mm x 2.4 mm) 7x14 mesh (2.8 mm x 1.2 mm)