

## Claus Sulfur Recovery Products

Product	Characteristics	Standard Sizes
<b>Claus Catalysts</b>		
S-201	Sulfur conversion catalyst used in natural gas plants, refineries and smelters having Claus process plants and other types of sulfur recovery units.	Spheres: 1/2"x1/4" (6.4 mm - 12.7 mm) 3x6 mesh (3.3 mm - 6.7 mm) 5x8 mesh (2.4 mm - 4.0 mm)
S-2001/ ESM-221	New generation catalyst for Claus units in natural gas processing plants, oil refineries, coke plants, and sub-dewpoint tail gas units such as MCRC, CBA or Sulfreen. It provides exceptional conversions of H <sub>2</sub> S/SO <sub>2</sub> , COS and CS <sub>2</sub> due to its high macroporosity, high surface area, and thermal stability without sacrificing physical properties.	Spheres: 1/2"x1/4" (6.4 mm - 12.7 mm) 3x6 mesh (3.3 mm - 6.7 mm) 5x8 mesh (2.4 mm - 4.0 mm)
S-501/ ESM-251	Sulfation resistant sulfur recovery catalyst used in natural gas plants, refineries, and smelters having Claus process plants and other sulfur recovery plants. Also used in first reactors for improved COS/CS <sub>2</sub> conversion.	Spheres: 3x6 mesh (3.3 mm - 6.7 mm) 5x8 mesh (2.4 mm - 4.0 mm)
S-7001/ ESM-271	Specialty titania sulfur recovery catalyst for Claus units in natural gas processing plants, oil refineries, and coke plants. S-7001 is particularly suited for use in the first converter for the high conversion of COS and CS <sub>2</sub> . This extra high COS/CS <sub>2</sub> conversion is especially important for Claus plants that employ tailgas treating units that may not completely convert COS and CS <sub>2</sub> , such as selective-oxidation units and sub-dewpoint systems.	S-7001/ESM-271 QL: 3.5 mm quadralobe extrudates
<b>Oxygen Scavenger</b>		
S-601/ ESM-261	Promoted activated alumina catalyst that is used to scavenge oxygen in Claus reactors employing alumina catalyst. It is used as a top layer in Claus catalyst beds to protect the alumina catalyst bed beneath it from poisoning by sulfation due to oxygen breakthrough.	Spheres: 3x6 mesh (3.3 mm - 6.7 mm)
<b>Claus Tail Gas Conversion Catalysts</b>		
S-4001	Spherical Co-Mo based tail gas hydrogenation catalyst with excellent performance for medium to high temperature service.	Spheres: 4x6 mesh (3.3 mm - 4.7 mm) 5x8 mesh (2.4 mm - 4.0 mm)
S-8001	Maximum performance Co-Mo based tail gas hydrogenation catalyst for low temperature applications.	Trilobe extrudates

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Product	Characteristics	Available Sizes
<b>Claus Bed Support</b>		
ESM-100	Activated alumina support, used as topping and support of Claus catalyst beds. The use of activated alumina support allows for a cost savings compared to the use of inert support due to the lower bulk density of the activated alumina and the activated alumina support provides some Claus catalytic activity.	Spheres: 1/4" (4.7 mm – 7.9 mm) 1/2"x1/4" (6.4 mm - 12.7 mm) 1/2" (9.5 mm - 15.9 mm)
ESM Ceramic Support Balls	Inert spheres, used as support and topping for Claus catalyst beds. They offer high strength, excellent attrition resistance and are available in a wide range of sizes.	Spheres: 1/8" (3 mm nominal size) 1/4" (6 mm nominal size) 3/8" (9 mm nominal size) 1/2" (13 mm nominal size) 3/4" (19 mm nominal size) 1" (25 mm nominal size) 1 1/2" (38 mm nominal size) 2" (50 mm nominal size)

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