

MAXCEL™ TGS-01

TAIL GAS HYDROGENATION CATALYST SPHERES

Typical Properties		
Chemical	Co (as CoO)	~ 1.9 %
	Mo (as MoO ₃)	~ 5.8 %
Physical	Surface Area	300 m ² /g
	Total Pore Volume	0.45 cc/g
	Flat Plate Crush Strength	30.0 lb _i /bead
	Bulk Density	43 lbs/ft ³ (689 kg/m ³)
	Size – nominal	5 mm spheres
Availability	Packaging	Oxide: 1,500 lbs (680.4 kg) supersacks actiCAT®: 3,000 lbs (1,360.8 kg) flow bins UltraCAT®: 3,000 lbs (1,360.8 kg) flow bins (alternative packaging available upon request)
Activation	Stoichiometric sulfur required for activation (by weight): 2,000 lbs (907.2 kg) supersacks Loading density after activation: 45.5 lbs/ft ³ (729 kg/m ³)	
Application	Spherical cobalt-molybdenum (CoMo) on activated alumina catalyst for use in Claus tail gas treating units that contain a hydrogenation reactor (e.g. SCOT tail gas units). Optimized catalyst support structure provides high conversion of SO ₂ , COS, CS ₂ , and elemental sulfur in Claus tail gas with very low pressure drop. Also facilitates water-gas shift reaction in the hydrogenation reactor to reduce CO emissions from tail gas incinerator, producing additional hydrogen for reduction. Designed for use in tail gas units with a reactor inlet temperature of at least 500 °F (260 °C). Maxcel TGS-01 can be treated with actiCAT® TG presulfurization or UltraCAT® TG preactivation for simple and fast tail gas unit startup.	

*Physical properties shown reflect a typical value. Actual shipments fall within a specification range (provided upon request). Recommended contingency amount is 5 % of required volume to account for typical variation in loading density, losses due to handling, etc.

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