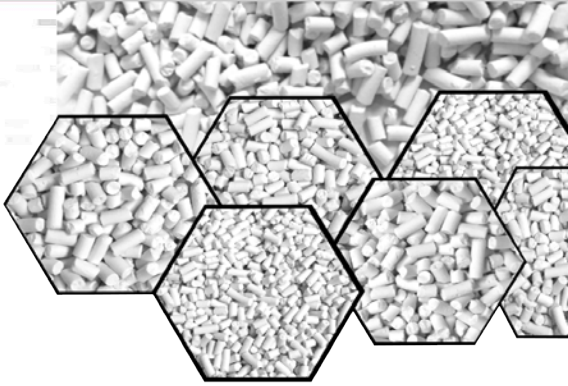
A988

Claus Catalyst



Description

A988 is specially manufactured with a high titanium dioxide (TiO_2) content for the Claus Process and is typically used in the first reactor. Titanium dioxide will increase the hydrolyzation of CS_2 and COS to reform HS_2, which can be converted into elemental sulfur. This titanium dioxide product offers the highest levels of efficiency, recovered sulfur, and a high resistance to thermal aging. These properties allow lower operating temperatures in the first Claus Reactor, high levels of activity during the hydrolysis of carbonyl sulfide and carbon disulfide, and an increased life span.

- high hydrolysis reactivity allows Claus conversion to nearly reach thermodynamic equilibrium
- this product is not sensitive to trace O_2 in acid gas and sulfate poison does not occur
- only requires 3 seconds of contact time and can be used in 1200h-1 GHSV
- offers a superior ability to cope with lean acid gas and Claus tail gas

Specifications

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A988		
Property	**Unit**	**Pellets**
Appearance	mm	Φ(4-6) x (5-20)
TiO_2 Content	wt%	>85
Specific Surface Area	m^2/g	>100
Pore Volume	cc/g	>0.20
Bulk Density	g/mL *(lb/ft^3)*	0.90-1.05 *(56.1-65.6)*
Average Crush Strength	N/cm *($lbm*ft/s^2$)*	≥120 *(≥26.9)*
Attrition	wt%	≤1
Packaging Options	200kg *(440.9lb)* / Drum	

Industries Used

sulfur recovery units Claus process

Storage

As an adsorbent, molecular sieve should not be left exposed to open air and should be stored in dry conditions with air-proof packaging.

Connect with us…

Hengye Inc.
11999 Katy Frwy, Suite 588
Houston, Texas 77079
Office (832) 288-4288
Fax (832) 288-4230
info@hengyeinc.com

HengYe

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