

Alumina Catalyst for Sulphur Production



Principle applications:

- is used in the processes which are based on Claus reaction, in Claus and Sulfren units.

Manufactured according to specifications TS 2163-002-73770384-2009

Property	Specification standards						
	For Claus units			For Sulfren units			
	O-K	A-K	B-K	O-C	A-C	B-C	D-C
Appearance	White granules						
Diameter of granules, mm	4,0-6,0	2,8-8,0		2,0-5,0		5,0-10,0	
Mass fraction of specific diameter granules, %, not less than	96,0						
Bulk density, g/cm ³	0,65-0,70		0,7-0,8	0,65-0,90			
Ignition loss, at 800°C, %, not more than	7,0		8,0	7,0	8,0	7,0	
Specific surface, m ² /g, not less than	300	280	250	350	300	260	240
Crushing strength, MPa, not less than	8,0	6,0		8,0	6,0		
Attrition rate, % mass dust/min, not more than:							
- Surface layer	0,5						
- Average	0,3						
Total pore volume, cm ³ /g, not less than	0,52	0,50	0,48	0,52	0,50		
Claus reaction rate constant, 10 ⁻⁴ mole/(g•sec•atm)	35,0	32,0	26,0	40,0	35,0	30,0	27,0
Carbon Bisulphide reaction rate constant, 10 ⁻⁴ mole/(g•sec•atm)	2,5	2,0		2,0			

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