

<b>HUANGHE MINERALS CO.,LIMITED</b>		Version: 2006
<b>PRODUCTS SPECIFICATION</b>		Code: T/P/qa
<b>Product</b>	Light weight grog/cenosphere filler	Origin: China /SX/HB/

Code	Porous Mullite			Expanded mullite	Expanded Clay	Cenosphere
	MUL65	HAL55	CLY45	EXP 45	EXP20	CENO-50M
Chemical property						
Al <sub>2</sub> O <sub>3</sub>	65	55	45	45	19-22	30-39
SiO <sub>2</sub>	25	35	45	52	60-62	50-60
Fe <sub>2</sub> O <sub>3</sub>	2			2	5-8	1-5
R <sub>2</sub> O						0.5-4
CaO				0.1	1	0.5-2
MgO						1-2
TiO <sub>2</sub>	3	2.5	2	1	1	0.5-2
Physical property						
Working temp	1450C	1350C	1250C	1350 C	1200 C	
Pack density g/cc	0.7-0.9 (1-5mm)			0.7-0.9 (1-8mm)	0.4-0.6 (1-8mm)	0.35-0.45
Bulk density	1.2-1.4g/cc			--	--	0.6-0.8
CCS				4.5 (1-3mm)	3.5 (1-3mm)	100-350
MPA				3.5 (3-8mm)	2.6 (3-8mm)	
Appearance	Yellow porous pellets			Brownish beans	Brownish bean	Off-white ,hollow sphere
Mineralogy						
Glass phase	Minor					Major
Mullite phase	Major			Major		Major
Cristobalite	Minor					Minor
Size	1. grains like 0-1/1-3/3-6mm, 2. kiln run pellet or beans					-50mesh
Pack	In 1 mt bags / 25kg bags in big bag / 25kg bags on pallets shrink-wrapped					
Application	The porous structured high refractoriness aggregate can be installed as insulation lining or working face castables or pre-cast shapes which direct not contact with liquid, it can hold heat to save energy, it also reduce the weight of installation.					Cenosphere used in light cement, LW refractories , sonic insulation, and plastics
Description	Porous mullite use slected high alumina clay (65,55,45), mixed with grinded super fine wood-dust, palletised, and calcined in shaft kiln, till the organic materials burned out and forms open porous light weight structure. (open Porous) Expanded mullite clay, use natural clay burned in very high temperature till it half melted and form close porous aggregate.					In power plant, during burning, the clay in the coal are melted in high speed wind, it forms bubble alumina silicate sphere.

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