

**HUANGHE MINERALS CO.,LIMITED****VERSION: 2006****PRODUCTS SPECIFICATION****CODE: M/P/QA****PRODUCT FUSED MULLITE /ZIRCON MULLITE/ZIRCON CORUNDUM****ORIGIN: CHINA / YIMA**

Code	FMUL-70A (Al <sub>2</sub> O <sub>3</sub> ) Fused A mullite	FMUL-70B (bauxt) Fused B mullite	FZR-AL Zircon corundum	FZR-MUL Zircon mullite	FZR-Mgo eutectic FZR-M30 FZR-M25	
<b>Chemical property</b>						
Al <sub>2</sub> O <sub>3</sub>	70-77	70-73 (73)	55-70 (70, 65, 60, 55)	44-50	0.1	0.15
SiO <sub>2</sub>	22-29	22-29 (24.5)	0.5	16-20	0.5	0.5
Fe <sub>2</sub> O <sub>3</sub>	0.1	0.5 (0.3)	0.3	0.3	0.5	0.45
R <sub>2</sub> O	0.5	0.25 (0.15)	--	--	--	--
CaO	0.3	0.4 (0.3)	0.3	0.3	0.75	0.70
MgO					66.5	72.5
TiO <sub>2</sub>	Nil	2.5 (1.2)	0.5		Nil	
ZrO <sub>2</sub>	Nil	Nil	25-40 (25,30,35,40)	33-39 (	31	25
<b>Physical property</b>						
Refractoriness	1850C	1840		--	2200C	2200C
AP				3	3.4	3.3
Particle BD	3.03 g/cc	3.0g/cc	4.0g/cc	3.6g/cc	4.2	4.15
Liner Expan co-eff	-6x10 <sup>-6</sup>	-6x10 <sup>-6</sup>				
Appearance	White/grey needle crystal	Brown needle crystal	Yellowish brown crystal	Yellowish needle crystal	Green yellow crystal	
<b>Mineralogy</b>						
Glass phase	5-6	5-10		5		
Mullite phase	95	90-95		50-55		
Indined ZrSiO <sub>4</sub>	--		25-40	30-35		
Corundum	--		55-70	5		
Size	1.grains like 0-1/1-3/3-6mm, 6x14mesh, 14x30mesh,-40mesh apply ISO, JIS, DIN, ASTM standard 2.Raymond milled powder -200mesh, -300mesh					
Pack	In 1mt bags / 25kg bags in big bag / 25kg bags on pallets shrink-wrapped					
Application	Glass furans, kiln furniture,thermal shock Brick, petrochemical	Glass furans, kiln furniture,thermal shock Brick, petrochemical	Al-Zr-C slide plate bricks, long life than AL-ZR-SI-C plate.	AL-Zr-SI-C slide plate, long nozzle for CC, glass furnaces	High strength, high refractory, good mechanical strength, chemical erosion.	
Description	Pure silica sand+pure Al <sub>2</sub> O <sub>3</sub> fused in EAF, low thermal expan, high RUL, High refractory	Use high pure bauxite +silica sand fuse in EAF, low thermal expan, theram shock, high RUL	Use high pure Al <sub>2</sub> O <sub>3</sub> and high pure ZrO <sub>2</sub> (99%) fused in EAF,	Use high pure Al <sub>2</sub> O <sub>3</sub> and refined zircon sand (zro <sub>2</sub> >66%) fuse in EAF, well crysal formed	Periclase boned by Mgo-CrO <sub>2</sub> eutectic, soft temperature till 2200C,	
Price						