



## MUZR- FUSED MULLITE-ZIRCONIA

### FUSED MULLITE-ZIRCONIA (AL<sub>2</sub>O<sub>3</sub> - ZrO<sub>2</sub> - SiO<sub>2</sub>) FOR REFRACTORIES

#### ABOUT:

MUZR is fused mullite-zirconia obtained from the fusion of zircon sand and alumina in an electric arc furnace. It presents low thermal expansion and high thermal shock resistance that make MUZR an excellent material for refractory applications such as slide gates, nozzles and special refractory parts for glass industry .

TYPICAL CHEMICAL ANALYSIS	
Al <sub>2</sub> O <sub>3</sub>	45.98%
ZrO <sub>2</sub>	37.75
SiO <sub>2</sub>	15.98
Fe <sub>2</sub> O <sub>3</sub>	0.09
Na <sub>2</sub> O	0.13

TYPICAL PHYSICAL PROPERTIES	
Crystal Structure:	Monoclinic Zirconia dispersed in a mullite matrix
Melting Point:	1850° C
Color:	Yellow
Specific Gravity:	3.74 g/cc
Reversible Linear Expansion:	0.68% at 1400° C
Apparent Porosity:	3.0%
Apparent Specific Density:	3.73 g/cm <sup>3</sup>

App. Porosity & App. Specific Density by ASTM C 20-00

AVAILABLE SIZES	
MESH	METRIC (mm)
3/4" x 5/16"	19.1 - 8.00
5/16" x 4	8.00 - 4.75
4 x 10	4.75 - 2.00
10 x 20	2.00 - 0.850
10 x 40	2.00 - 0.425
20 x 40	0.850 - 0.425
40 x 200	0.425 - 0.075
TPF II	- 0.212
200 MF	- 0.075
325 MF	- 0.045
*Other sizes available upon request	

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