



Vulcasil Z

Zircon and zirconia based materials. Good thermal shock and erosion capabilities, together with resistance to attack by alkalis and operating temperatures up to 2200°C.

VULCASIL Z - ZIRCONIA

Product Reference	Description	Chemical Analysis %			Bulk Density g/cm ³
		ZrO ₂	SiO ₂	Other	
		Wt %	Wt %	Wt %	
ZRP51	A calcium stabilised zirconia which combines good thermal shock resistance with resistance to erosion by molten alloys.	96	0.5	3.5	4.3
ZRP68	A calcium stabilised zirconia which combines good thermal shock resistance with resistance to erosion by molten alloys.	96	0.5	3.5	4.4
ZRP73	A calcium stabilised zirconia with exceptional resistance to erosion by high temperature molten alloys.	96	<0.5	4.0	4.5
ZRP75	Silicate bonded zircon with good resistance to vapour attack by alkalis and glaze volatiles.	49	33	18.0	3.35

Product Reference	Apparent Porosity	Cold Crushing Strength	Thermal Conductivity @1200 C	Maximum Service Temperature	Typical applications	Comments
	%	MPa	W/m ² K	°C		
ZRP51	24	-	1.3	1900	Nozzles for powder atomisation and casting.	Pressed - Fine
ZRP68	24	-	1.3	1900	Nozzles for powder atomisation and casting.	Pressed
ZRP73	20	-	1.1	2200	Bricks and shapes for special applications requiring ultimate refractoriness and resistance to molten metals.	Pressed - Coarse
ZRP75	18	-	-	1450	Glost tunnel kiln pre heat and early cool zones.	Pressed





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