

Rongsheng Refractory Plastic Physical and Chemical Index Tables

1. Technique Data of Wear-Resistant Refractory Plastic

Item	Specification		
	NMK1	NMK1	NMK1
Al ₂ O ₃ %	≥65	≥75	≥85
Bulk Density,g/cm ³ 110°C×24h	≥2.5	≥2.7	≥2.8
PLC, % 1000°C×3h	-0.4~0	-0.5~0	-0.5~0
CCS, MPa 1000°C×3h	≥70	≥80	≥90
Wear Resistance, cm ³ 1000°C×3h	≤7	≤6	≤5
TSR, Cycle 1000°C Water 1000°C×3h	≥30	≥30	≥25
Plasticity Index, %	15~55		
Thermal Conductivity, W/(m·K) 1000°C	1.1~1.6	1.1~1.6	1.6~2.0
Max Working Temperature, °C	1400	1500	1600

Item	SiC			Zircon Chrome Corundum
	NMK4	NMK5	NMK6	NMK7
Al ₂ O ₃ %	/	/	/	≥80
SiC %	≥40	≥60	≥70	/
Cr ₂ O ₃ %	/	/	/	≥3
ZrO ₂ %	/	/	/	≥2
Bulk Density,g/cm ³ 110°C×24h	≥2.4	≥2.5	≥2.6	≥2.8
PLC, % 1000°C×3h	-0.4~0	-0.5~0	-0.6~0	-0.6~0
CCS,MPa 1000°C×3h	≥60	≥70	≥80	≥90
Wear Resistance, cm ³ 1000°C×3h	≤7	≤6	≤5	≤5
TSR, Cycle 1000°C Water	≥30	≥35	≥40	≥30
Plasticity Index, %	15~55			
Thermal Conductivity, W/(m·K) 1000°C	3~5	5~7	6~8	2~3
Max Working Temperature, °C	1400	1500	1600	1600

2. Technique Data of Clay&High Alumina Refractory Plastics

Item		Specification				
		KSL35	KSL40	KSL60	KSL75	KSL80
Al ₂ O ₃ %		≥35	≥40	≥60	≥75	≥80
Bulk Density,g/cm ³ 110°C×24h		≥2.15	≥2.2	≥2.35	≥2.5	≥2.65
MOR, MPa	110°C×24h	≥2	≥2.5	≥2.5	≥3	≥3
	1300°C×3h	≥3	≥3.5	≥3.5	≥4	≥5
Crushing Strength, MPa	110°C×24h	≥6	≥7	≥7	≥8	≥8
PLC, %		-1.5~0 1300°C×3h		-1.5~+0.5 1400°C×3h		-1.0~+0.5 1500°C×3h
Plasticity Index, %		12~35				