

The Technical Association of Refractories, Japan

Certified Reference Material Series for X-ray Fluorescence Analysis of Refractories

J R R M 1 0 1 - 1 1 0 (Series №1 for Fireclay Refractories)

Certificate of Analyses

Constituent	Unit mass%									
	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	MnO	CaO	MgO	Na ₂ O	K ₂ O	
JRRM 101	88.6 ₇	8.11	0.31 ₄	0.30 ₂	0.11 ₆	1.06 ₂	0.21 ₇	1.01 ₄	0.16 ₅	
JRRM 102	80.5 ₅	13.8 ₁	3.98 ₂	0.45 ₄	0.01 ₅	0.04 ₉	0.67 ₃	0.30 ₄	0.14 ₅	
JRRM 103	80.4 ₂	18.0 ₉	0.40 ₇	0.37 ₀	0.00 ₅	0.07 ₂	0.01 ₆	0.12 ₄	0.35 ₀	
JRRM 104	67.3 ₆	22.5 ₂	3.24 ₅	2.94 ₄	0.01 ₇	0.25 ₈	0.07 ₀	0.30 ₀	3.04 ₉	
JRRM 105a	69.3 ₃	25.4 ₁	0.76 ₈	2.25 ₄	0.11 ₉	0.40 ₈	0.22 ₃	0.65 ₃	0.81 ₉	
JRRM 106	63.7 ₂	29.9 ₆	1.92 ₅	0.68 ₀	0.02 ₄	0.14 ₆	0.98 ₂	0.60 ₀	1.81 ₉	
JRRM 107	55.4 ₁	37.1 ₄	2.20 ₆	1.15 ₆	0.01 ₉	0.71 ₁	0.49 ₃	0.21 ₈	2.57 ₇	
JRRM 108	55.3 ₈	40.1 ₄	1.54 ₉	1.05 ₅	0.02 ₀	0.27 ₇	0.27 ₀	0.20 ₇	0.81 ₀	
JRRM 109	54.3 ₀	41.3 ₀	0.89 ₃	1.96 ₄	0.01 ₁	0.14 ₆	0.12 ₆	0.30 ₇	0.79 ₄	
JRRM 110	49.5 ₉	46.7 ₃	0.84 ₉	1.66 ₈	0.01 ₄	0.10 ₇	0.16 ₆	0.08 ₅	0.34 ₂	

Note: The above values show the contents after igniting for an hour at 800±25 °C.

Prepared, values given and certified by

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