The Technical Association of Refractories, Japan

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

ＪＲＲＭ　２２１－２３２(Series №2 for Silica Refractories)

Certificate of Analyses

Unit mass%

Constituent	SiO_2	Al_2O_3	Fe_2O_3	TiO_2	MnO	CaO	MgO	Na_2O	K_2O	P_2O_5	Cr_2O_3	ZrO_2
JRRM 221	83.85	10.032	1.572	0.044	0.151	2.786	0.686	0.461	0.270	0.014	0.022	0.012
JRRM 222	84.81	7.661	3.869	0.788	0.056	0.169	0.940	0.205	0.787	0.006	0.006	0.488
JRRM 223	86.08	5.227	2.042	0.049	0.203	4.147	0.271	0.693	0.372	0.014	0.036	0.676
JRRM 224	87.90	4.661	2.473	0.153	0.164	1.959	0.292	0.288	0.903	0.688	0.309	0.003
JRRM 225	89.98	3.228	1.274	0.425	0.071	3.191	0.136	0.901	0.631	0.012	0.014	0.011
JRRM 226	91.29	2.634	2.992	0.296	0.029	0.973	0.096	0.193	0.475	0.238	0.245	0.320
JRRM 227	92.97	1.660	0.810	0.092	0.238	2.418	0.057	0.058	0.112	0.003	0.454	0.883
JRRM 228	93.89	0.398	0.088	1.211	0.035	1.785	0.119	1.188	0.106	0.991	0.085	0.011
JRRM 229	95.74	1.174	0.190	0.121	0.074	1.412	0.468	0.073	0.079	0.017	0.374	0.201
JRRM 230	97.78	0.180	0.701	0.033	0.121	0.608	0.016	0.076	0.028	0.388	0.057	0.001
JRRM 231	98.61	0.630	0.049	0.003	0.004	0.005	0.004	0.006	0.004	0.001	0.188	0.383
JRRM 232	99.77	0.052	0.053	0.002	0.005	0.004	0.001	0.005	0.004	0.001	0.002	0.001 *1

＊1：Uncertified value

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

Prepared, values given and certified by

The Technical Association of Refractories, Japan
New Ginza Bldg., 3-13, Ginza 7-chome, Chuo-ku, Tokyo 104-0061, Japan
Telephone : 81-3-3572-0705　Fax : 81-3-3572-0175

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SEISHIN TRADING CO., LTD.
1-4-4, Minatojima-Minamimachi, Chuo-ku, Kobe 650-0047, Japan
Telephone : 81-78-303-3810　Fax : 81-78-303-3822