

MATRILITE HS AC

MATRILITE HS AC is an insulating refractory castable designed for aluminum metal contact applications. It may also be used as the backup lining for melting and holding furnaces processing non-ferrous metals, including zinc, galvalume, and aluminum. MATRILITE HS AC offers excellent insulating properties, high strengths, and is non-wetting to aluminum and other non-ferrous metals.

Chemical Analysis

*Major

SiO ₂	51.3%
Al ₂ O ₃	28.5%
CaO	11.8%
Fe ₂ O ₃	3.3%
Alkalies	2.2%
TiO ₂	1.3%

*Proprietary ingredients not included

Product Information

Maximum Use Temperature	1290°C (2350°F)
Material Required	1.37 g/cm ³ (85 lb/ft ³)
Grain Size	5 mm (4 mesh) and finer
Installation Methods	Vibration Cast

Cast Data

Temperature		Density		Linear Expansion	MOR		CCS		K-Factor*		Porosity
°C	°F	g/cm ³	lb/ft ³	%	MPa	psi	MPa	psi	W/mK	$\frac{\text{BTU in}}{\text{ft}^2 \text{ hr } ^\circ\text{F}}$	%
110	230	1.51	94	-	3.6	520	16.8	2430	0.48	3.36	28.5
320	600	1.49	93	-0.1	3.0	430	14.5	2110	0.43	2.98	34.2
540	1000	1.44	90	-0.2	3.0	430	13.4	1950	0.42	2.93	34.7
820	1500	1.36	85	0.1	5.3	770	25.5	3700	0.48	3.31	38.1
1090	2000	1.38	86	0.1	4.5	650	25.5	3700	0.61	4.20	39.1
1260	2300	1.39	87	-0.1	6.3	910	25.3	3670	0.72	4.97	35.1

*Estimate

Hydraulic Set

Water Required	19 – 21%
Mixing Time	8 minutes minimum
Working Time	1 – 6 hours
Initial Set	1.5 – 6 hours
Final Set	4 – 12 hours

Packaging Information

Standard packaging	25 kg (55 lb) multi-wall paper bags
Note:	Bulk bag packaging available upon request. Storage beyond 24 months is not recommended.

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