

UNI-BRADE HP FSP

UNI-BRADE HP FSP is a low cement fused silica castable which is characterized by high strength and excellent abrasion and thermal shock resistance. This product is designed to be installed by pumping.

Service Temperature:	2300°F	1260°C
Water Required to Pump:	5.8%	5.8%
Water Required to Cast:	5.3%	5.3%
Material Required:	136 lbs/ft ³	2179 kg/m ³
Abrasion Loss ASTM C-704:	<9.0 cc	<9.0 cc

TYPICAL CHEMICAL ANALYSIS, %

Al ₂ O ₃	SiO ₂	TiO ₂	Fe ₂ O ₃	CaO	MgO	Alkalies	Other
30.4	65.7	0.5	0.4	1.8	<0.1	0.2	1.0

TYPICAL PHYSICAL PROPERTIES

Pre-Fired To		Bulk Density		Cold Compressive Strength		Total Linear Change
°F	°C	lbs/ft ³	kg/m ³	psi	MPa	%
220	105	139	2230	11,000	76	-0.1
1500	815	136	2180	10,000	69	-0.1
2000	1095	136	2180	9,000	62	-0.1

K-values (BTU-in/hr/ft²/°F)

	400°F	800°F	1200°F	1600°F	2000°F
Pump	7.34	7.65	7.90	8.08	8.20

Revision date: 08/13/2024 - Check with your URC sales rep to determine if you have the current sheet
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