

## UNI-FLO HP 110 CS

**UNI-FLO HP 110 CS** Medium weight density, free flow castable with excellent strength and abrasion resistance.

<b>Service Temperature:</b>	2800°F	1540°C
<b>Colloidal Silica Required to Free Flow cast:</b>	20%	20%
<b>Material Required:</b>	110 lbs/ft <sup>3</sup>	1762 kg/m <sup>3</sup>
<b>Abrasion Resistance - ASTM C704:</b>	<11.0 cc	<11.0 cc

### TYPICAL CHEMICAL ANALYSIS, %

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	Alkalies
54.6	37.9	1.0	1.5	4.1	0.9

### TYPICAL PHYSICAL PROPERTIES

Pre-Fired To		Bulk Density		Cold Compressive Strength		Cold Modulus of Rupture		Total Linear Change
°F	°C	lbs/ft <sup>3</sup>	kg/m <sup>3</sup>	psi	MPa	psi	MPa	%
220	105	112	1790	9,000	62	1,800	12	-0.1
1500	815	111	1780	7,500	52	1,350	9	-0.3
2000	1095	110	1760	8,500	59	1,700	12	-0.5
2550	1400	106	1700	9,000	62	1,800	12	0.3
2732	1500	110	1760	9,000	62	1,800	12	-0.3

### K-values (BTU-in/hr/ft<sup>2</sup>/°F)

	400°F	800°F	1200°F	1600°F	2000°F
Cast	5.3	5.4	5.5	5.6	5.7

Revision date: 8/21/2024 - Check with your URC sales rep to determine if you have the current sheet  
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