

## UNI-BRADE HP 135V

UNI-BRADE HP 135V is a castable refractory designed for use in hydrocarbon processing applications. It is well suited for areas requiring a moderate density with good abrasion resistance.

<b>Service Temperature:</b>	2900°F	1595°C
<b>Material Required:</b>	133 lbs/ft <sup>3</sup>	2131 kg/m <sup>3</sup>
<b>Water Required to Cast:</b>	6.5%	6.5%
<b>C-704 Abrasion loss:</b>	< 8 cc	< 8 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
54.7	38.2	1.1	1.0	4.4	0.6

### 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	137	2190	18,000	124	2,100	14	-0.1
1500	815	133	2130	11,000	76	1,700	12	-0.3
2000	1095	133	2130	12,000	83	1,500	10	-0.4
2550	1400	134	2150	15,000	103	1,800	12	-0.3
2732	1500	132	2110	18,000	124	2,000	14	0.3

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

	400°F	800°F	1200°F	1600°F	2000°F	2400°F
<b>Cast</b>	7.06	7.13	7.16	7.15	8.24	8.35

Revision date: 7/30/2024 - Check with your URC sales rep to determine if you have the current sheet