

## UNI-BRADE HP 135G

UNI-BRADE HP 135G is a gunning 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>	2650°F	1455°C
<b>Material Required:</b>	129 lbs/ft <sup>3</sup>	2067 kg/m <sup>3</sup>
<b>C-704 Abrasion loss:</b>	< 10 cc	< 10 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
58.8	28.7	1.0	0.9	9.8	0.8

### 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	138	2210	11,000	76	2,000	14	-0.1
1500	815	129	2070	10,000	69	1,600	11	-0.3
2000	1095	128	2050	8,000	55	1,300	9	-0.4
2550	1400	127	2030	10,000	69	1,700	12	-0.2

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

	400°F	800°F	1200°F	1600°F	2000°F	2400°F
<b>Gunned</b>	6.74	6.82	6.86	6.86	7.74	7.84

Revision date: 7/24/2024 - Check with your URC sales rep to determine if you have the current sheet