

## UNI-BRADE HP 165G

UNI-BRADE HP 165G is a gunning refractory designed for use in hydrocarbon processing applications. It is well suited for areas requiring a high density with excellent abrasion resistance.

<b>Service Temperature:</b>	3200°F	1760°C
<b>Material Required:</b>	161 lbs/ft <sup>3</sup>	2579 kg/m <sup>3</sup>
<b>C-704 Abrasion Loss:</b>	<6.0 cc	<6.0 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	MgO	Alkalies
77.8	15.3	2.4	1.1	2.8	0.2	0.4

### TYPICAL PHYSICAL PROPERTIES

Pre-Fired To		Bulk Density		Cold Compressive Strength		Cold Modulus of Rupture		Total Linear Change	Porosity
°F	°C	lbs/ft <sup>3</sup>	kg/m <sup>3</sup>	psi	MPa	psi	MPa	%	%
220	105	163	2610	10,000	69	2,500	17	0.0	14
1500	815	161	2580	10,000	69	2,300	16	-0.4	23
2000	1095	160	2560	10,000	69	2,400	17	-0.5	23
2550	1400	156	2500	9,000	62	2,500	17	+0.6	18

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

	400°F	800°F	1200°F	1600°F	2000°F	2400°F
Gun	20.40	16.70	15.10	14.60	14.60	15.10

Revision date: 07/24/2024 - Check with your URC sales rep to determine if you have the current sheet