

UNI-CAST HP 110

UNI-CAST HP 110 is a castable refractory designed for use in hydrocarbon processing applications. It is well suited for areas requiring a mid-weight density, low thermal conductivity, and excellent abrasion resistance.

Service Temperature:	2600°F	1425°C
Material Required per ft³:	116 lbs	1858 kg/m ³
Water Required to Cast	8.0%	8.0%
C-704 Abrasion Loss:	9.0 cc	9.0 cc

TYPICAL CHEMICAL ANALYSIS, %

Al ₂ O ₃	SiO ₂	CaO	TiO ₂	Fe ₂ O ₃	Alkalies
42.6	48.9	4.5	1.2	1.7	1.1

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	123	1970	17,000	117	-0.1
1500	815	116	1860	10,000	69	-0.3
2000	1095	116	1860	9,000	62	-0.4
2400	1315	116	1860	8,000	55	-0.5

K-values (BTU-in/hr/ft²/°F)

	400°F	800°F	1200°F	1600°F	2000°F	2400°F
Cast	5.70	5.76	5.85	5.92	6.02	6.09

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