



PRODUCT DATA

Brand Name:

UNIFORM DS97

Description: UNIFORM DS97 is a precast shape made using a low moisture, high silica castable bonded with high purity cement. This product's exceptional hot strength provides for maximum resistance to impact and abrasion.

Physical properties shown are average values of samples taken under controlled conditions
ASTM test methods used where applicable

Maximum Service Temperature: 3000°F (1649°C)

	Pre-Cast Data	
<u>Bulk Density (pcf)</u>		
After 300°F (150°C)	115	(1.84 g/cm ³)
After 1500°F (815°C)	114	(1.83 g/cm ³)
<u>Cold Crushing Strength (psi)</u>		
After 300°F (150°C)	4900	(343 kg/cm ²)
After 1500°F (815°C)	2900	(203 kg/cm ²)
<u>Modulus of Rupture (psi)</u>		
After 300°F (150°C)	1300	(91 kg/cm ²)
After 1500°F (815°C)	700	(49 kg/cm ²)
HMOR At 2700°F (1482°C)	500	(35 kg/cm ²)
<u>Permanent Linear Change (%)</u>		
After 300°F (150°C)	0.0	
After 1500°F (815°C)	-0.2	
<u>Abrasion Loss (using ASTM C-704 Method)</u>		
At 2500°F (1371°C)	10 cc	
<u>Typical Chemical Analysis (%)</u> (Calcined Basis)		
Alumina (Al ₂ O ₃)	0.5	
Silica (SiO ₂)	96.3	
Iron Oxide (Fe ₂ O ₃)	0.2	
Titania (TiO ₂)	0.1	
Lime (CaO)	2.6	
Magnesia (MgO)	0.2	
Alkalies (Na ₂ O+K ₂ O)	0.1	

Brand Code: 3400

The properties shown on this data sheet represent typical average results using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

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