



PRODUCT DATA

Brand Name:

UNIFORM 85 LC

Description:

UNIFORM 85 LC IS A PRECAST SHAPE MADE WITH A HIGH ALUMINA LOW CEMENT CASTABLE DESIGNED FOR MAXIMUM RESISTANCE TO THERMAL SHOCK 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 500°F (260°C)	180	(2.88 g/cm ³)
After 2200°F (1204°C)	181	(2.90 g/cm ³)
After 2800°F (1538°C)	175	(2.80 g/cm ³)
<u>Cold Crushing Strength (psi)</u>		
After 500°F (260°C)	8000	(560 kg/cm ²)
After 2200°F (1204°C)	9000	(630 kg/cm ²)
After 2800°F (1538°C)	6000	(420 kg/cm ²)
<u>Modulus of Rupture (psi)</u>		
After 500°F (260°C)	2400	(168 kg/cm ²)
After 2200°F (1204°C)	2700	(189 kg/cm ²)
After 2800°F (1538°C)	1750	(189 kg/cm ²)
<u>Permanent Linear Change (%)</u>		
After 500°F (260°C)	0.0	
After 2200°F (1204°C)	-0.3	
After 2800°F (1538°C)	+0.9	
<u>Typical Chemical Analysis (%)</u>		
(Calcined Basis)		
Alumina (Al ₂ O ₃)	83.3	
Silica (SiO ₂)	11.3	
Iron Oxide (Fe ₂ O ₃)	1.3	
Titania (TiO ₂)	2.4	
Lime (CaO)	1.2	
Magnesia (MgO)	0.2	
Chromic Oxide (Cr ₂ O ₃)	0.3	

Brand Code: 3257 (With 1.5% SS fibers)

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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