



PRODUCT DATA

Brand Name: **UNIFORM 90 ARS**

Description: UNIFORM 90 ARS IS A PRECAST SHAPE MADE WITH A TABULAR ALUMINA / SPINEL, LOW MOISTURE CASTABLE. THE ADDITION OF SPINEL SIGNIFICANTLY IMPROVES THIS CASTABLES HOT STRENGTH AND RESISTANCE TO SLAG ATTACK.

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

Maximum Service Temperature: 3300°F (1816°C)

	Pre-Cast Data	
<u>Bulk Density (pcf)</u>		
After 300°F (150°C)	181	(2.90 g/cm ³)
After 1500°F (815°C)	180	(2.88 g/cm ³)
After 3000°F (1649°C)	185	(2.96 g/cm ³)
<u>Cold Crushing Strength (psi)</u>		
After 300°F (150°C)	15000	(1050 kg/cm ²)
After 1500°F (815°C)	14000	(980 kg/cm ²)
After 3000°F (1649°C)	16000	(1120 kg/cm ²)
<u>Modulus of Rupture (psi)</u>		
After 300°F (150°C)	2250	(158 kg/cm ²)
After 1500°F (815°C)	1900	(133 kg/cm ²)
After 3000°F (1649°C)	5250	(368 kg/cm ²)
HMOR At 2700°F (1482°C)	2000	(140 kg/cm ²)
<u>Permanent Linear Change (%)</u>		
After 300°F (150°C)	0.0	
After 1500°F (815°C)	-0.1	
After 3000°F (1649°C)	-0.1	

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	91.2
Silica (SiO ₂)	0.1
Lime (CaO)	2.5
Magnesia (MgO)	6.1
Alkalies (Na ₂ O+K ₂ O)	0.0

Brand Code: 3272

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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