



PRODUCT DATA

Brand Name: UNICRETE 90 ARS

Description: UNICRETE 90 ARS is a tabular alumina/spinel, low moisture castable. The addition of spinel significantly improves this castable's 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)

Typical Water Required for Mixing (by weight) :

Casting 6.5 - 7.5%

	Casting Data	
<u>Bulk Density (pcf)</u>		
After 230°F (110°C)	184	(2.95 g/cm ³)
After 1500°F (815°C)	180	(2.88 g/cm ³)
<u>Cold Crushing Strength (psi)</u>		
After 230°F (110°C)	12000	(840 kg/cm ²)
After 1500°F (815°C)	11000	(770 kg/cm ²)
<u>Modulus of Rupture (psi)</u>		
After 230°F (110°C)	1150	(81 kg/cm ²)
After 1500°F (815°C)	1900	(133 kg/cm ²)
HMOR At 2700°F (1482°C)	2000	(140 kg/cm ²)
<u>Permanent Linear Change (%)</u>		
After 230°F (110°C)	0.0	
After 1500°F (815°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)	6.0

Standard Packaging: 70 lb bag. Bulk packaging available.

Brand Code: 3152

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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