



PRODUCT DATA

Brand Name: UNICRETE 28 LI

Description: UNICRETE 28 LI is a low iron casting mix based on high fired alumina/silica aggregate of approximately 60% mullite content, bonded with low iron calcium aluminate cement. UNICRETE 28 LI can be used in coke oven, blast furnace, and other applications where reducing conditions occur.

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

Maximum Service Temperature: 2800°F (1538°C)

Typical Water Required for Mixing (by weight) :
Casting 8.0 - 9.5%

	<u>Casting Data</u>	
<u>Bulk Density (pcf)</u>		
After 300°F (150°C)	140	(2.24 g/cm ³)
After 1500°F (815°C)	138	(2.21 g/cm ³)
After 2700°F (1482°C)	138	(2.21 g/cm ³)
<u>Cold Crushing Strength (psi)</u>		
After 300°F (150°C)	5000	(350 kg/cm ²)
After 1500°F (815°C)	2300	(161 kg/cm ²)
<u>Modulus of Rupture (psi)</u>		
After 300°F (150°C)	1200	(84 kg/cm ²)
After 1500°F (815°C)	800	(56 kg/cm ²)
After 2700°F (1482°C)	1750	(123 kg/cm ²)
HMOR At 2000°F (1093°C)	700	(49 kg/cm ²)
<u>Permanent Linear Change (%)</u>		
After 300°F (150°C)	0.0	
After 1500°F (815°C)	-0.1	
After 2700°F (1482°C)	-0.2	
<u>Abrasion Loss (using ASTM C-704 Method)</u>		
After 1500°F (815°C)	8.5 cc	

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	51.1
Silica (SiO ₂)	41.0
Iron Oxide (Fe ₂ O ₃)	0.9
Titania (TiO ₂)	1.1
Lime (CaO)	5.2
Magnesia (MgO)	0.3
Alkalies (Na ₂ O+K ₂ O)	0.3

Standard Packaging: 60 lb bag. Bulk packaging available.

Brand Code: 3124

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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