



PRODUCT DATA

Brand Name: RESCOLITE 23-50LI

Description: RESCOLITE 23-50 LI is a low iron, lightweight castable with a nominal 50 pcf density that can be installed by casting or conventional gunning methods. This low iron lightweight castable is suitable for reducing and hydrogen atmospheres.

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

Maximum Service Temperature: 2300°F (1260°C)

Typical Water Required for Mixing (by weight) :

Casting 55%
Predampening for Gunning 10%

	Casting Data		Gunning Data	
Bulk Density (pcf)				
After 1500°F (815°C)	51	(0.82 g/cm ³)	64	(1.03 g/cm ³)
Cold Crushing Strength (psi)				
After 1500°F (815°C)	700	(49 kg/cm ²)	1500	(105 kg/cm ²)
Thermal Conductivity (K Factor)				
Mean Temperature	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>
500°F (260°C)	2.29	0.33	2.84	0.41
1000°F (540°C)	1.80	0.26	2.29	0.33
1500°F (815°C)	2.08	0.30	2.64	0.38
Permanent Linear Change (%)				
Green to 1500°F (815°C)	-0.6 to 0.0		-0.6 to 0.0	
230°F (110°C) to 1500°F (815°C)	-0.5 to 0.0		-0.4 to 0.0	

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	40.1
Silica (SiO ₂)	37.1
Lime (CaO)	16.8
Iron Oxide (Fe ₂ O ₃)	1.0
Titania (TiO ₂)	0.8
Magnesia (MgO)	0.3
Alkalies (Na ₂ O+K ₂ O)	2.6

Standard Packaging: 50 lb bag. 50 bags per pallet. Bulk packaging available.

Brand Code: 8980

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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03/22/17 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine if you have the current sheet.

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