



# PRODUCT DATA

**Brand Name:** QUIKLITE 8-DS

**Description:** QUIKLITE 8-DS is a dust suppressed, medium weight, insulating castable that can be installed by casting or conventional gunning methods. This castable features a reduced dust level, good strength, and a low iron content which makes this product suitable for most furnace atmospheres, including CO boilers. After the initial set, QUIKLITE 8-DS can be initially heated without using the traditional ramp-and-hold heatup schedule. Use the recommended QUIKTURN heatup schedule for the initial heatup.

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

**Maximum Service Temperature: 2800°F (1540°C)**

**Typical Water Required for Mixing (by weight) :**

Casting ..... 25.5%  
Predampening for Gunning ..... 8.3 to 10.4%

	Casting Data		Gunned Data	
<b>Bulk Density (pcf)</b>				
After 1500°F (815°C)	84	(1.35 g/cm <sup>3</sup> )	100	(1.60 g/cm <sup>3</sup> )
<b>Cold Crushing Strength (psi)</b>				
After 1500°F (815°C)	1240	(87 kg/cm <sup>2</sup> )	1350	(95 kg/cm <sup>2</sup> )
<b>Apparent Porosity (%)</b>				
After 1500°F (815°C)	45.0%		40.0%	
<b>Thermal Conductivity (K Factor)</b>	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>
500°F (260°C)	3.8	0.55	4.2	0.61
1000°F (538°C)	3.3	0.48	3.9	0.57
1500°F (815°C)	3.6	0.52	4.1	0.60
<b>Permanent Linear Change (%)</b>				
Green to 1500°F (815°C)	-0.4 to 0.0		-0.4 to 0.0	
220°F (105°C) to 1500°F (815°C)	-0.1 to 0.0		-0.3 to 0.0	

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	45.8
Silica (SiO <sub>2</sub> ) .....	45.2
Lime (CaO) .....	6.0
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.7
Titania (TiO <sub>2</sub> ) .....	1.0
Magnesia (MgO) .....	0.1
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	1.2

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

Brand Code: 1580

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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One Robinson Plaza - Suite 300, 6600 Steubenville Pike, Pittsburgh, PA, 15205 Phone: 888-283-5505