



PRODUCT DATA

Brand Name: **FURNACON™ 95**
Description: FURNACON™ 95 resists spalling and cracking from thermal and mechanical abuse. Its high purity, high alumina base makes it ideally suited for troughs and tapholes.

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

Maximum Service Temperature: 3000°F (1650°C) 2200°F (1204°C) Aluminum non-wetting

Typical Water Required for Mixing (by weight) :
 Vibration Cast 4.0 - 5.5%

<u>Bulk Density (pcf)</u>	<u>Vibration Cast Data</u>	
	After 1500°F (815°C)	189 - 194
After 2000°F (1093°C)	188 - 193	(3.01 - 3.09 g/cm ³)

<u>Cold Crushing Strength (psi)</u>		
After 1500°F (815°C)	15000 - 19000	(1050 - 1130 kg/cm ²)
After 2000°F (1093°C)	11000 - 15000	(770 - 1050 kg/cm ²)

<u>Modulus of Rupture (psi)</u>		
After 1500°F (815°C)	4000 - 4500	(280 - 315 kg/cm ²)
After 2000°F (1093°C)	4900 - 5400	(343 - 378 kg/cm ²)

<u>Permanent Linear Change (%)</u>	
After 1500°F (815°C)	-0.3 to -0.1
After 2000°F (1093°C)	-0.3 to -0.1

<u>Apparent Porosity (%)</u>	
After 1000°F (538°C)	7 - 10

<u>Thermal Conductivity (K Factor)</u>	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>
Mean Temperature		
1500°F (815°C)	27.5	3.97
2000°F (1093°C)	25.8	3.72

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	93.8
Silica (SiO ₂)	5.0
Iron Oxide (Fe ₂ O ₃)	Trace
Titania (TiO ₂)	Trace
Lime (CaO)	1.1
Magnesia (MgO)	Trace
Alkalis (Na ₂ O+K ₂ O)	0.1

Standard Packaging: 55 lb bag. 72 bags per pallet. Bulk packaging available.

Brand Code: 0873

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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