



PRODUCT DATA

Brand Name:

Mighty Fibre M

Description:

MIGHTY FIBRE M is a precast shape made with a castable-bonded, metallic fiber composite for added strength and spalling resistance. MIGHTY FIBRE M precast shapes can be used in applications where mechanical abuse and thermal cycling are normal operating conditions.

Physical properties shown are averages based on standard precast sizes.

ASTM test methods used where applicable

Maximum Service Temperature: 2500°F (1371°C)

Bulk Density (pcf)

After 220°F (105°C)

Vibration Cast Data

196

(3.14 g/cm³)

Cold Crushing Strength (psi)

After 1500°F (815°C)

15,000

(1050 kg/cm²)

Modulus of Rupture (psi)

After 1500°F (815°C)

10,000

(700 kg/cm²)

Abrasion Loss (using ASTM C-704 Method)

After 1500°F (815°C)

3.5 cc

(average)

Typical Chemical Analysis (%)

(Calcined Basis without SS Fibers)

Alumina (Al ₂ O ₃)	58.9
Silica (SiO ₂)	36.6
Lime (CaO)	2.7
Iron Oxide (Fe ₂ O ₃)	0.4
Titania (Ti ₂ O ₃)	1.1
Magnesia (MgO)	0.1
Alkalis (Na ₂ O+K ₂ O)	0.2

Brand Code: 9944 (with 310 ss fibers)
9945 (with HCA fibers)

9951 (with 304 ss fibers)

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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