

MIGHTYFIBRE 17-CS-15

MightyFibre 17-CS-15 is part of a family of composite products consisting of a blend of steel fibres combined with a fine grained castable matrix. This combination allows Pre-cast elements to be produced which exhibit extreme Thermal Shock, Impact and Erosion resistance combined with super high strengths. Manufacture does not use the established infiltration method; instead a mixing technique is employed which allows a coarser and much stronger ceramic component to be used than previously possible. This product can only be supplied in the form of pre-cast shapes.

<u>MAXIMUM SERVICE TEMPERATURE (M.S.T.)</u>	325°C	
<u>CERAMIC COMPONENT</u>	Chamotte High Cement, High strength Low Iron Castable	
<u>FIBRE COMPONENT</u>	Carbon Steel	
<u>MIXING WATER</u>	7.0 – 8.0% (as a percentage of the whole)	
<u>BULK DENSITY</u> Dried to 325°C	187 - 194 lbs/ft ³	3000 - 3100 Kg/m ³
<u>COLD CRUSHING STRENGTH</u> Dried to 325°C	18,000 – 25,000 Psi	1260 - 1750 Kg/cm ²
<u>COLD MODULUS OF RUPTURE</u> Fired to 325°C	4,000 – 6,000 Psi	280 - 420 Kg/cm ²
<u>PERMANENT LINEAR CHANGE</u> Green - 325°C	0.0 TO -0.15 %	
<u>MAXIMUM GRAIN SIZE</u>	5mm	

TYPICAL CHEMICAL ANALYSIS OF CERAMIC COMPONENT (%)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	Alk
53.2	40.2	0.8	4.3	0.2	1.2	0.2

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled conditions 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. RESCO PRODUCTS disclaims any expressed or implied warranties based on this sheet. 01/08/13 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet