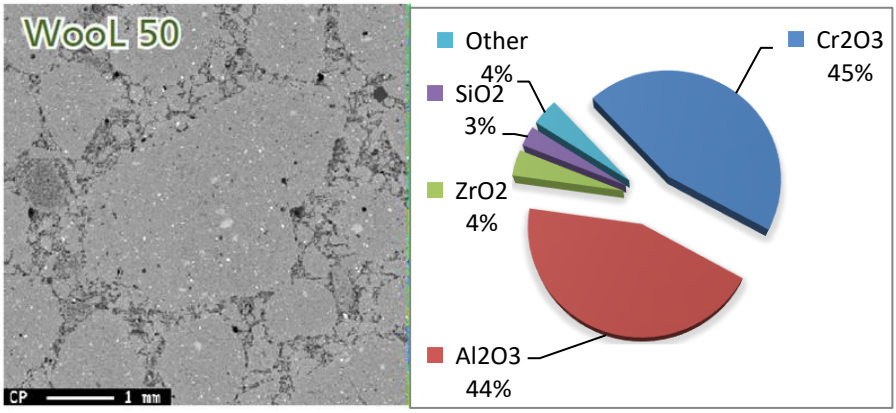
WOOL 50

WOOL 50 is an innovative Chromia-Alumina bonded material for high wear areas such as sidewalls dedicated for Insulation fiber glass furnaces. This unique new material is based on a proprietary grain manufacturing process which allows us to reach higher performance levels. The material optimized chemistry and crystallography architecture enables high intrinsic corrosion resistance in immerged and submerged situations, better joint closing, smoother corrosion profile, while improving other properties such as electrical resistivity, thermal expansion and thermal shock resistance. This material can be formed by vibrocasting (WOOL 50V) and unidirectional pressing (WOOL 50P) depending on shapes and size required.

CHEMICAL ANALYSIS



PHYSICAL CHARACTERISTICS

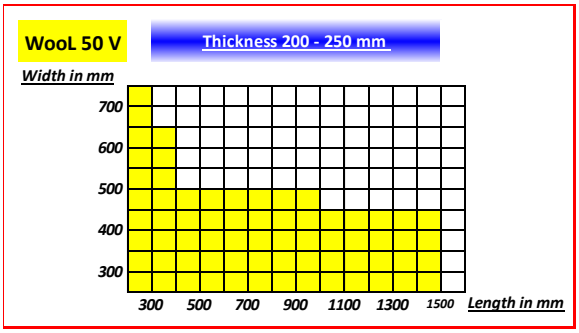
WOOL 50	International System		British standard units	
Bulk density	3,54	Tm-3	221	Lb/ft3
Open porosity	15,0	%	15,0	%
Cold crushing strength	180	MPa	26107	Psi
Coefficient of thermal expansion	8,5	10-6 /°C-1	4,7	10-6 /°F
Thermal conductivity at 1000°C	2,6	W.m.-1°C-1	1,5	Btu /h-ft°F
Refractoriness under load 0,2 MPa T0,5%	1720	°C	3130	°F
Thermal shock resistance	medium			medium

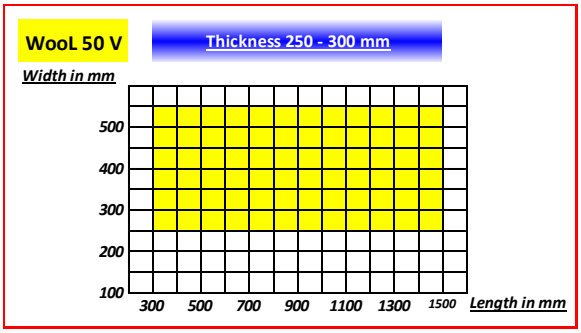
TYPICAL APPLICATIONS

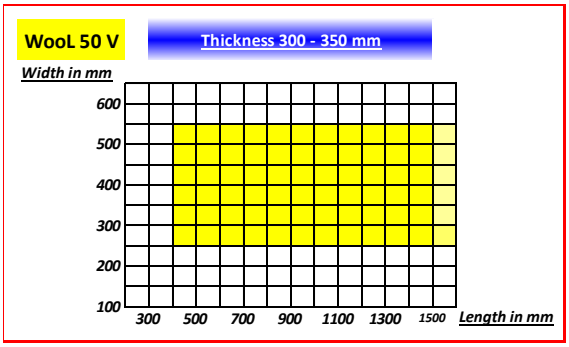
WOOL 50 is designed for severe glass contact areas such as sidewalls of electric of flame Insulation fiberglass furnaces.

CAPABILITY GRIDES (ON GOING, NOT DEFINITIVE)

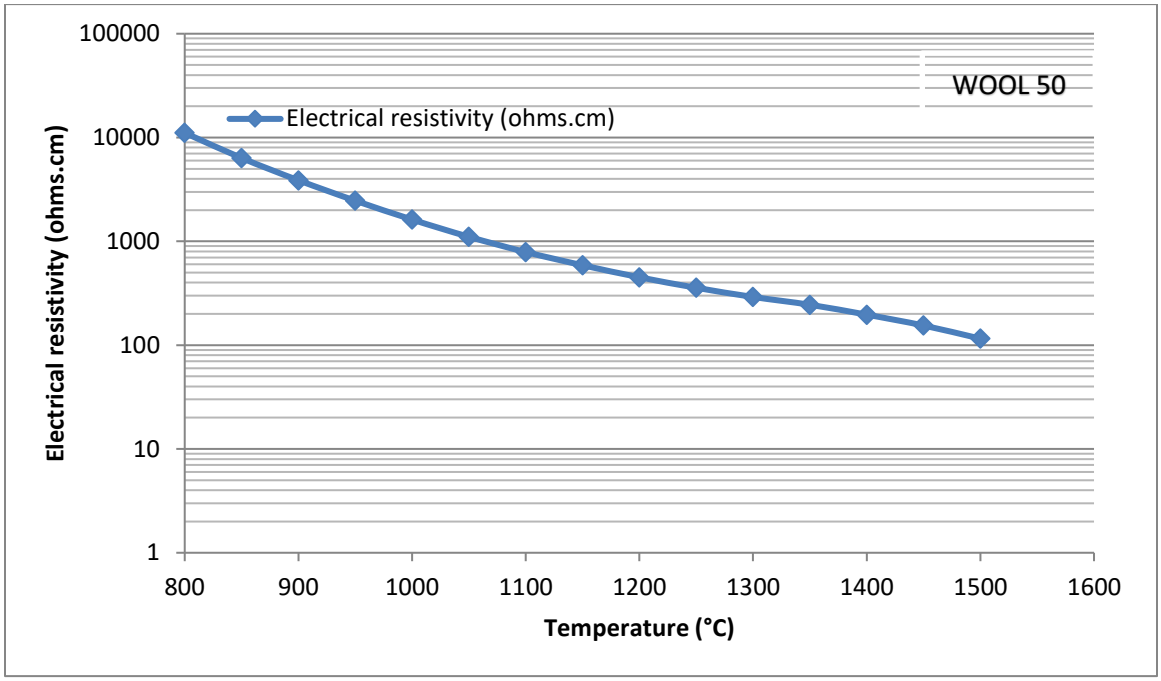
For sizes outside of the charts below, please contact us.



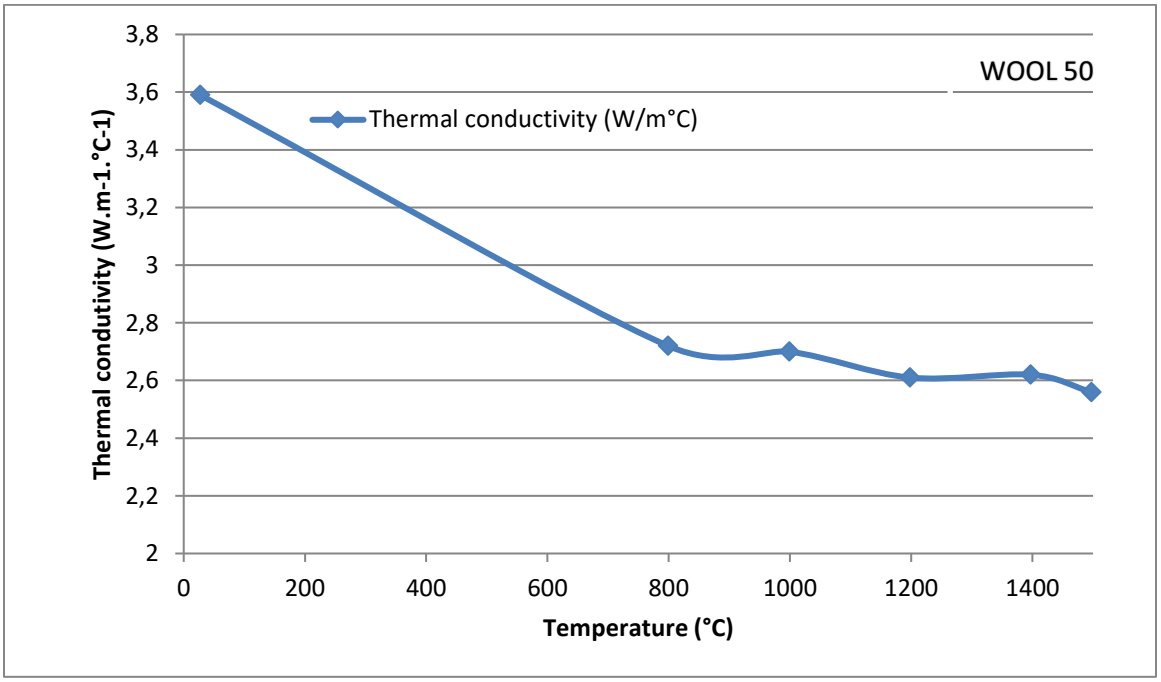




ELECTRICAL RESISTIVITY



THERMAL CONDUCTIVITY



THERMAL EXPANSION