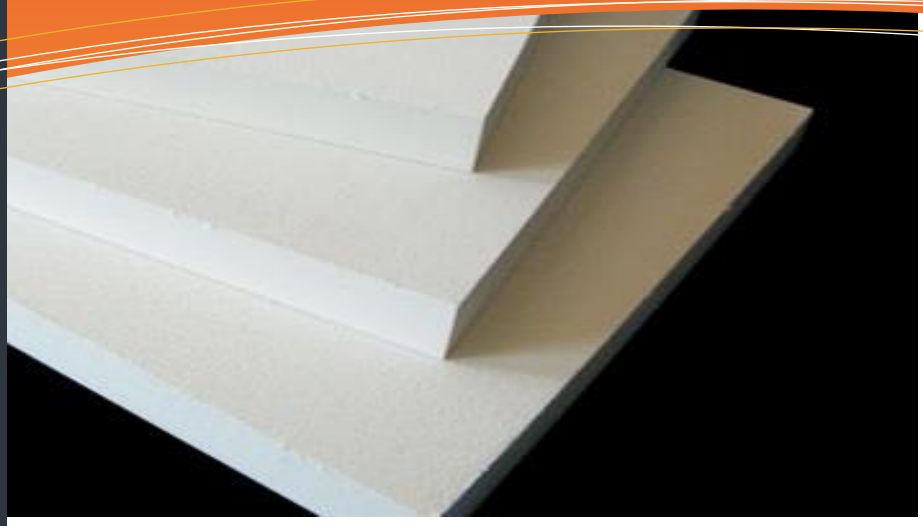
360 MATERIALS
Because Every Degree Counts

Alumina Fiber Insulation Boards 1450, 1600, 1700 and 1800C



TECHNICAL BENEFITS

- Shot free, polycrystalline structure does not devitrify for stability throughout temperature range
- Machinable
- High melting point above 1800C
- Controlled fiber diameter creates high tensile strength fibers
- Low mass, low heat storage
- Low thermal conductivity (K)
- Microwave transparent

OPERATIONAL BENEFITS

- Safe to use: Silica free and non-respirable (Non-RCF)
- Increased service life
- Reduced lining repair shut downs
- Increased furnace reliability
- Increased productivity
- Lowered operating costs
- Improved product quality

P.O. Box 317, Chester, NY 10918 www.360mtls.com 845-645-3635 sales@360mtls.com

360 MATERIALS
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Alumina Fiber Insulation Boards 1450, 1600, 1700 and 1800C

Material Properties & Characteristics

Grade	1350	1550	1650	1700	A1500A
Continuous Use Temperature (deg C)	1350	1550	1650	1700	1500
Maximum Use Temperature (deg C)	1450	1600	1700	1800	1600
Melting Point (deg C)	1800	1820	1850	1850	1850
Dilatometric Softening Point (deg C)	1200	1310	1300	1300	1265
% Linear Shrinkage (8 hrs at Grade)	1	1	0	1	1
Density (pcf)	18	18	25	25	45
Nominal Composition (wt%)					
Alumina	55	75	80	80	97
Silica	44	25	20	20	3
Organics	0	0	0	0	5
Thermal Expansion (x 10^{-6} / ^{o}C)	4.5	5.0	5.0	5.0	7.5
Compressive Strength (PSI at RT)	30	55	70	70	100
Tensile Strength MOR (PSI at RT)	110	18	185	180	250
Thermal Conductivity (Wm/K)					
At 20C	0.07	0.07	0.07	0.07	0.07
At 1000C	0.19	0.23	0.24	0.25	0.28
At 1200C	0.24	0.28	0.28	0.29	0.31
At 1400C	0.31	0.34	0.35	0.33	0.33
Specific Heat at 1100C (J/kgK)	0.28	0.28	0.28	0.28	0.25

Standard Sizes

- Item MBD001 – 1350 Fiber Board, 24” x 36” x 1”
- Item MBD002 – 1350 Fiber Board, 24” x 36” x 2”
- Item MBD003 – 1550 Fiber Board, 24” x 36” x 1”
- Item MBD004 – 1550 Fiber Board, 24” x 36” x 2”
- Item MBD005 – 1650 Mullite Board, 24” x 36” x 1”
- Item MBD006 – 1650 Mullite Board, 24” x 36” x 1”
- Item MBD007 – 1750 Mullite Board, 24” x 36” x 1”
- Item MBD008 – 1750 Mullite Board, 24” x 36” x 1”
- Item ABD001 – 1500 Alumina Board, 24” x 36” x 1”
- Item ABD002 – 1500 Alumina Board, 24” x 36” x 2”

TECHNICAL SUPPORT

Drawing upon 30 years experience in ceramics and thermal processing, 360 Materials supplies material solutions for all atmospheres up to 2400C.

IN STOCK INVENTORY

Call us at (845) 645-3635

CUSTOM SIZING

Custom sizes and shapes available upon request.

For more information on any of our products or services please contact us at: (845) 645 - 3635