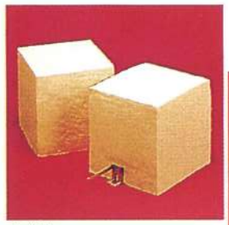
Blanket

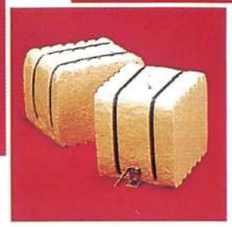
1500Ace Blanket

Bulk



Uniblok

Unifelt & Kaostick



Saber Bloc

Paper

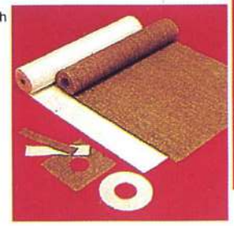
Board

Cone & Sleeve

Panel Heater

Vacuum Formed Shapes

Cloth



Rope

Wet Felt

Millboard

Dpstar Group

ISOLITE®

ISOWOOL

CERAMIC FIBER

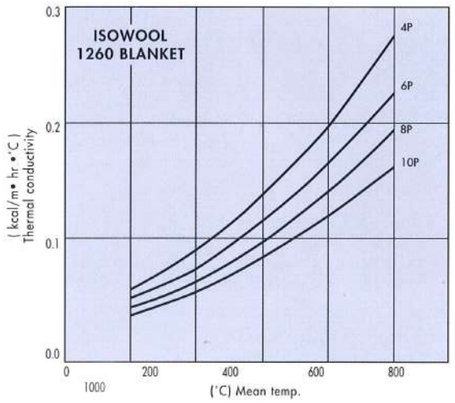
ISOWOOL is a ceramic fiber made from the purest of raw materials, which are electromelted, air-blown at high speed and fiberized. Light in weight and soft to the touch, ISOWOOL possesses excellent refractory and insulating properties.
It sees extensive application in such key industries as steel, nonferrous, petrochemical and ceramic.
Not only that, but it finds wide use also for seals, for fillers, for filters and as reinforcing fiber of various composites.

GENERAL PROPERTIES

		ISOWOOL 1260	ISOWOOL 1400	ISOWOOL 1500
Classification temperature(°C) (°F)		1260 2300	1400 2600	1500 2800
Melting point (°C)		1760	1700	1760
Fiber diameter (μm)		2.8	2.8	2.6
Fiber Length (mm)		~ 250	~ 250	~ 150
Specific gravity		2.6	2.8	2.65
Chemical analysis (%)	Al_2O_3	47.1	35.0	40.0
	SiO_2	52.3	49.7	58.1
	Cr_2O_3	—	—	1.8
	ZrO_2	—	15.0	—

※ patented products

THERMAL CONDUCTIVITY



ISOWOOL - RELATED PRODUCTS

Products	Classisfication temperature	Remarks	Catalog
TRIPLE - T	1260 ~ 1600 °C (2300 ~ 3000 °F)	900x600x6, 12.5, 25mm (space filler, expands on heating)	KT - 10
TEX - 10	1000 °C (1900 °F)	Silica fiber textiles (cloth, tapes, sleeves)	Leaflet
TEX - 14	1400 °C (2600 °F)	3M (USA) NEXTEL textile products (cloth, tapes, sleeves)	Bulletin - 194
SAFFIL	1600 °C (3000 °F)	ICI (UK) alumina fiber products (bulk, LDM, paper)	Leaftet
KAOSTICK	1400 °C (2600 °F)	Inorganic cement, 25kgs / tin ...for Unifelt veneering	Bulletin - G03E
NEOKOTE	1000 ~ 1450 °C (1900 ~ 2650 °F)	Unifelt surface coating material, 20kgs / paper bag	Bulletin - G03E
RIGIDIZER	1200 °C (2200 °F)	Rigidizer for ceramic fiber, 5 kgs & 20kgs / metal can	Bulletin - 186

ISOLITE® ISOWOOL CERAMIC FIBER

● ISOWOOL is a trademark owned by **ISOLITE INSULATING PRODUCTS CO., LTD.** of Japan.

Dpstar Group

	Products	Classification temperature	Bulk density (kg / m³)	Thermal conductivity (Kcal / mh°C) 400°C	600°C	800°C	1000°C	Thermal conductivity (W/m.k) 400°C	600°C	800°C	1000°C	Reheat change (%) (at°C x 24hrs)	Binder Organic	Binder Inorganic	Standard size (mm)	Typical applications	Remarks
BULK	▲ 1260 BULK	1260°C (2300°F)	60 ~ 200 (Pack density)	pack density 190kg/m³ 0.07	0.10	0.14	0.20	0.08	0.12	0.16	0.23	------	------	------	5kg carton / 15kg carton	Expansion joint filler	Other forms of Bulk available
	▲ 1400 BULK	1400°C (2600°F)	60 ~ 200 (Pack density)	pack density 190kg/m³ 0.07	0.10	0.14	0.20	0.08	0.12	0.16	0.23	------	------	------	5kg carton / 15kg carton	Material for various composites	
BLANKET	▲ 1000 BLANKET	1000°C (1900°F)	96 (6P) , 128 (8P)	(8P) 0.08	0.13	0.19	0.27	0.09	0.15	0.22	0.31	------	------	------	7200 x 600 x 25 / 3600 x 600 x 50	Furnace linings	Following have Construction Ministry approval as incombustible material 1000 Blanket (approval NO.1518) 1260 Blanket (approval NO.1519)
	▲ 1260 BLANKET	1260°C (2300°F)	64 (4P) , 96 (6P) 128 (8P) , 160 (10P)	(8P) 0.06	0.10	0.14	0.20	0.08	0.13	0.20	0.23	-1.3 (1000°C), -1.8 (1100°C)	------	------	7200 x 600 x 6, 12.5, 25 / 3600 x 600 x 50 1200 x 600 x 6, 12.5, 25	Heat seals Packing	
	1260 ACE BLANKET	1260°C (2300°F)	128 (8P) , 160 (10P)	(8P) 0.06	0.10	0.14	0.20	0.07	0.12	0.16	0.23	-1.3 (1000°C), -1.8 (1100°C)	------	------	7200 x 600 x 6, 12.5, 25	Fire protection	
	▲ 1400 BLANKET	1400°C (2600°F)	96 (6P) , 128 (8P) 160 (10P)	(8P) 0.07	0.11	0.17	0.25	0.08	0.13	0.17	0.29	-1.5 (1200°C), -2.5 (1300°C)	------	------	7200 x 600 x 6, 12.5, 25	Noise reduction Filter material	
	▲ 1500 BLANKET	1500°C (2800°F)	128 (8P) , 160 (10P)	(10P) ------	0.09	0.13	0.18	------	0.10	0.15	0.21	-1.6 (1300°C), -2.0 (1400°C)	------	------			
	1600 BLANKET	1600°C (3000°F)	96 (6P) , 128 (8P)	(6P) ------	0.08	0.12	0.16	------	0.09	0.14	0.19	-0.6 (1400°C), -0.5 (1500°C)	------	------	3600 x 620 x 25		
PAPER	1260 PAPER	1260°C (2300°F)	315	0.08	0.11	0.15	------	0.09	0.13	0.17	------	------	o	------	18m x 600 x 1.0 18m x 600 x 2.0	Heat seals Packing Elec. appliance and heating apparatus insulation	1200mm not regular width to be made to order.
	1260 ACE PAPER	1260°C (2300°F)	160	0.06	0.09	0.12	0.17	0.07	0.10	0.14	0.20	------	------	------	30m x 600 x 2.5	Filter material	
	1500 ACE PAPER	1500°C (2800°F)	160	------	0.08	0.12	0.16	------	0.09	0.14	0.19	------	------	------	30m x 600 x 2.5	Asbestos paper substitute	
BOARD	1000 BOARD	1000°C (1800°F)	250	0.07	0.11	0.17	------	0.08	0.13	0.20	------	-0.3 (800°C), -1.3 (900°C)	o	o	900 x 600 x 20 (Available 5~50mm thick, in addilious of 5mm)	High temp. furnace linings Elec. furnace lining, back-up Fire protection	1000 Board has incombustible (approval NO.1868) from Construction Ministry Available also are fired products from which smoke and odor at initial heat-up removed.
	▲1260 BOARD	1260°C (2300°F)	250	------	0.08	0.12	0.16	------	0.09	0.14	0.19	-0.8 (900°C), -1.1 (1000°C)	o	o			
	▲ 1400C BOARD	1400°C (2600°F)	250	------	0.10	0.14	0.20	------	0.12	0.16	0.23	-0.8 (1100°C), -1.4 (1200°C)	o	o			
	✻ 1600 BOARD	1600°C (3000°F)	180	------	0.10	0.14	0.20	------	0.12	0.16	0.21	-0.7 (1300°C), -1.2 (1400°C)	o	o			
	✻ 1600HA BOARD	1600°C (3000°F)	200	(800°C) 0.11	(1000°C) 0.14	(1200°C) 0.18	(1400°C) ------	(800°C) 0.13	(1000°C) 0.16	(1200°C) 0.21	(1400°C) ------	+ 0.4 (1600°C)	o	o	(1700HA BOARD)		
	✻ 1700HA BOARD	1700°C (3100°F)	300	0.10	0.12	0.15	0.18	0.12	0.14	0.17	0.21	- 0.6 (1700°C)	------	o	900 x 600 x 25		
	H BOARD LT	1000°C (1900°F)	1000	0.24	0.26	0.29	0.35	0.28	0.30	0.34	0.41	- 1.4 (900°C)	o	o	600 x 300 x 10, 15, 20, 25	Furnace floor lining	
	MT	1100°C (2000°F)	1000	0.24	0.26	0.29	0.35	0.28	0.30	0.34	0.41	- 1.4 (1000°C)	o	o		Back-up insulation for ladle and tundish	
	✻ HT	1400°C (2600°F)	1000	0.26	0.29	0.32	0.37	0.30	0.34	0.37	0.43	- 0.6 (1200°C)	o	o		Heat barrier plate	
	HMT	1400°C (2600°F)	1500	0.49	0.52	0.55	0.63	0.57	0.60	0.64	0.73	- 3.4 (1200°C)	o	o			
TEX-12	YARN	1260°C (2300°F)		-----	-----	-----	-----	-----	-----	-----	-----	------	o	------	Ø2, Ø3	Pipe and duct insulation heat barrier curtain weld splash protection woven asbestos substitute heat seals packing	Reinforcement materials: Glass yarn (G) or Stainless Steel wire (S). Smokefree treated products also available
	CLOTH	1260°C (2300°F)	1000g/m² (SI) 850g/m²(SII)(Smoke free)	-----	------	------	------	-----	-----	-----	-----	------	o	------	30m x 1000 x 2.0 or 1.8 (Smoke free)		
	TAPE	1260°C (2300°F)		-----	------	------	------	-----	-----	-----	-----	------	o	------	30m x 25, 50 75, 100x2.0 or 1.8		
	ROPE	1260°C (2300°F)	310 (Before heating)	-----	------	------	------	-----	-----	-----	-----	------	o	------	Diameter 6~50		
FELT	1260 FELT	1260°C (2300°F)	160	0.07	0.11	0.15	0.21	0.08	0.13	0.17	0.24	- 1.1 (1000°C)	o	------	900 x 600 x 20 (Available 5~50mm thick, in additious of 5mm)	Furnace back-up insulation Heat seal Packing	Construction Ministry incombustible (approval NO.1777)
	1400 FELT	1400°C (2600°F)	160	0.07	0.11	0.15	0.21	0.80	0.13	0.17	0.24	- 1.4 (1200°C)					
	✻ 1600 FELT	1600°C (3000°F)	130	-----	0.11	0.16	0.23	------	0.13	0.19	0.27	- 1.5 (1400°C)					
	▲ WET FELT	1200°C (2200°F)	350 (105°C After dried)	-----	------	------	------	-----	------	------	------	------	------	o	600 x 300 x 3, 6, 12.5, 19, 25	Lining of velocity proof furnaces	Maintains shape after dried
BLOCK	▲ 1260 UNIFELT-B	1260°C (2300°F)	130	0.09	0.13	0.19	0.27	0.10	0.15	0.22	0.31	- 1.5 (1200°C)			300 x 300 x 50, 75, 100	Insulation veneering of furnaces in such industries as steel, non-ferrous, petrochemical, ceramic	
	▲ 1400 UNIFELT-B	1400°C (2600°F)	160	0.08	0.12	0.17	0.24	0.09	0.14	0.20	0.28	- 1.2 (1300°C)			300 x 150 x 50, 75, 100		
	▲ 1500 UNIFELT-B	1500°C (2800°F)	160	0.08	0.11	0.15	0.21	0.09	0.13	0.17	0.24	- 0.4 (1400°C)			200 x 200 x 50, 75, 100		
	✻ 1600 UNIFELT-B	1600°C (3000°F)	130	-----	0.12	0.18	0.25	------	0.14	0.21	0.29						
	▲ 1260 UNIBLOK	1260°C (2300°F)	128 ~ 210	(12UB,14UB 130kg/m³) 0.09	0.13	0.19	0.27	(12UB, 14UB 130kg/m³) 0.10	0.15	0.22	0.31	UB-12	------	------			
	▲ 1400 UNIBLOK	1400°C (2600°F)		(12UB, 14UB, 160kg/m³) 0.08	0.12	0.17	0.24	(12UB, 14UB, 160kg/m³) 0.09	0.14	0.20	0.28	-0.5 (900°C), -1.0 (1000°C)					
	▲ 1500 UNIBLOK	1500°C (2800°F)		(16UB, 130kg/m³) -----	0.12	0.18	0.23	(16UB, 130kg/m³) -----	0.14	0.21	0.27						
	✻ 1600 UNIBLOK	1600°C (3000°F)	100 , 130												300 x 300 x 150~300	Furnace linings in such industries as steel, nonferrous, petro-chemical, ceramic	
	▲ 1260 SABER BLOC	1260°C (2300°F)	128 ~ 210	(12SB, 14SB, 130kg/m³) 0.08	0.13	0.19	0.27	(12SB, 14SB, 130kg/m³) 0.09	0.15	0.22	0.31	14SB	------	------			
	▲ 1400 SABER BLOC	1400°C (2600°F)										-0.2 (1000°C), -1.0 (1100°C)					
	▲ 1500 SABER BLOC	1500°C (2800°F)		(12SB, 14SB, 150kg/m³)				(12SB, 14SB, 150kg/m³)									
	✻ 1600 SABER BLOC	1600°C (3000°F)	130	0.08	0.12	0.18	0.23	0.09	0.14	0.21	0.27						
SHAPES	1000 VFS	1000°C (1800°F)	250	(1260 VFS)				(1260 VFS)									
	▲1260 VFS	1260°C (2300°F)	250	0.06	0.08	0.12	0.16	0.07	0.09	0.14	0.19	-0.8 (900°C), -1.1 (1000°C)	------	------	Various shapes depending on application	Molten aluminum tap out cones Pipe cover plate heater Combustion chamber of water heater Heat barrier cover	
	▲1400 CVFS	1400°C (2600°F)	250														
	✻ 1600 VFS	1600°C (3000°F)	180														

▲ manufactured by **ISOLITE CERAMIC FIBERS SDN. BHD.**

✻ Contains SAFFIL alumina fiber.
SAFFIL is a registered trademark of Imperial Chemical Industries PLC. of the UK.

- Specifications are subject to change without notice. Values are for reference only.
- Thermal conductivity data are based on "ASTM C201"
- 1400°C classification temp. is equivalent to 2600°F