



### High temperature fibres and textiles

Dalfratex is a range of inorganic fibres and textiles. The materials are capable of operating continuously at 1000 °C and upto 1600 °C for limited periods.

Dalfratex products are available in unfired or fired conditions.

The code "U" defines the products which are unfired.

The two main coatings used are "D" and "AR" finishes. These coatings aid handleability (D) and abrasion resistance (AR).

Classification temperature	°C	1000 °C
Shrinkage		
200 °C - 24h	%	4
800 °C - 24h	%	7
1000 °C - 24h	%	12
1000 °C - 24h (pre-shrunk)	%	< 2
Specific heat capacity	kJ/kg K	0.88
Chemical analysis		
SiO <sub>2</sub>	%	98.57
$Al_2O_3$	%	0.47
TiO <sub>2</sub>	%	0.30
Alkalies	%	0.13
Fe <sub>2</sub> O <sub>3</sub>	%	0.08
MgO	%	0.07
$B_2O_3$	%	0.06
CaO	%	0.05
Chlorides	ppm	100-150

## **Properties & advantages**

- Good electrical insulator
- High electric strength
- Low electrical conductivity
- Compatible with mineral acids (except phosphoric and hydrofluoric)
- Compatible with a wide range of substances (air, chloride, carbon monoxide, ammonia and sulphur dioxide)
- Compatible with silica refractories at high temperatures
- Low chloride content
- Lightweight
- High resistance to thermal shock

## **Application areas**

### **AEROSPACE**

• Gas turbine and rocket engines

### **HEAVY INDUSTRY**

- Metallurgical/Steel production
- Glass manufacture
- Fire protection
- Electrical heating

#### **OIL AND GAS**

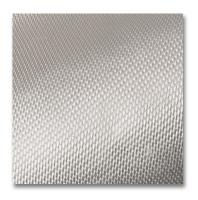
- Pipeline and vessel fabrication
- Gas production

#### **ENERGY**

- Nuclear power
- Electrical generation







Delivery sizes DALFRATEX® cloth										
Code		C-H	C-H C-19 UC-H/D UC-19/D UC-1							
Basic form		pre-shrunk	pre-shrunk	unfired	unfired	unfired				
Yarn type				plain						
Type of weave				satin						
Thickness	mm	0.9	1.6	0.9	1.6	1.7				
Width	mm	825	825	910	910	910				
Weight	g/m²	630	1250	640	1260	1300				
Length	m	45	45	48	48	48				

Product codes	Product codes DALFRATEX® cloth						
U	unfired						
С	without the U prefix defines fired cloth						
Н	lightweight cloth						
19	heavyweight cloth						
D	coating to aid handleability						
AR	coating to aid abrasion resistance (orange in colour)						

For example: UC-19/AR is unfired heavyweight cloth with abrasion resistance C-H is fired lightweight cloth with no coating

Sold in linear metres with a nominal roll length of 45 m for fired and 48 m for unfired.



Delivery sizes DALFRATEX® cord							
Code		D-T1	D-T20	D-T2	D-T3	D-T4	
Diameter	mm	0.7	0.9	1.2	2	3	
Weight	g/m²	430	740	1200	4000	6200	
Package		2320 m/kg	1360 m/kg	840 m/kg	100 m	50 m	
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Product codes DALFRATEX® cord					
D	cord				
Т	twisted				
В	braided				







Delivery sizes DALFRATEX® rope							
Code		R-B3	R-B4	R-C10	R-C13	R-C25	R-C40
Diameter	mm	9	12	10	13	20-25	40
Weight	g/m²	70	110	40	60	60	260
Length	m	50	25	25	25	25	25

The "B" series ropes are supplied in pre-shrunk condition and have light coating applied to assist manufacture. The "C" series ropes are supplied pre-shrunk and without coating

Product codes DALFRATEX® rope						
rope						
tighter construction						
loose construction						
the number represents the diameter in mm						
for example: R-C10 is a rope of loose construction 10 mm diameter						
the number represents and $8^{th}$ of an inch for example: R-B3 = $3/8^{th}$ of an inch (9 mm)						



Delivery sizes DALFRATEX® tape							
Code		T-3	T-5	T-85	T-H725	T-H/50	
Thickness	mm	0.4	0.4	4.0	1.0	1.0	
Width	mm	20	30	22	25	50	
Weight	g/m	6	9	37	16	32	
Length	m	30	30	-	-	-	

Product codes DALFRATEX® tape							
T	tape						
U	before code shows unfired product						

Sold in linear metres. T-3 to T-105 are standard tapes with the code increasing with thickness and width. UT tapes are unfired, 124 is a code reference (type of construction) where the second two digits represent the width of the tape.

For example: UT-124/50 is 50 mm wide

Self adhesive tapes are made from the DALFRATEX® cloth - hence the codes H and 19. The second two digits represent the width.

For example: T-H/25 is self adhesive tape made from lightweight cloth 25 mm thick.

New tape codes for the 'thick tape' series shows:

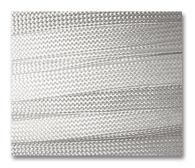
Codes T = tape

Number = thickness x with

For example: T-622 is 6 mm thick x 22 mm wide (nominal)







Delivery sizes DALFRATEX® sleeving											
Code		S-R4	S-R6	S-R25	S-R32	S-F16	S-F20	S-F25	S-F30	S-63	S-8
Bore	mm	3.2	4.8	20	25	10	13	20	25		30
Wall thickess	mm	0.5	0.5	1.0	1.0	0.4	0.5	0.5	0.5		1.0
Length	m	100	60	15	100	300	300	300	300		50

All sleevings can be supplied in pre-shrunk or in natural condition; with or without a coating

Product codes DALFRATEX® sleeving					
S	sleeving				
DR	double wall sleeving				

