GENERAL DESCRIPTION: These fabrics are made from highly texturized silica based yarns. The higher temperature capability is the result of a specialized manufacturing process. Thermo-Tec fabrics are free of any asbestos, are softer than asbestos fabrics of the same weight and have almost five times their abrasion resistance. The unique specifications of the Aluminized materials are listed below.


APPLICATIONS: Typical applications include plug wires, fuel lines, firewalls, etc...

PROPERTIES

PHYSICAL PROPERTIES OF SINGLE FILAMENT

Fiber Length........................................................................Continuous
Specific Gravity........................................................................2.54
MOH Hardness........................................................................6.50
Contact Angle with Water, Degrees........................................0
Coefficient of Friction with Glass.........................................1.0

MOISTURE ABSORBENCY, % (surface)

UP TO..................................................................................0.3

MOISTURE REGAIN...................................................................NONE

FIBER TENSILE STRENGTH, PSI

@ 72deg F........................................................................500,000
@ 700deg F.......................................................................380,000
@ 1000deg F.......................................................................250,000

FIBER TENSILE MODULUS, PSI

@ 72deg F........................................................................10.5 x 10/6

HYSTERESIS........................................................................NONE

CREEP................................................................................NONE

ELONGATION AT BREAK, %..................................................4.8

DIELECTRIC STRENGTH, VOLTS/MIL.....................................498

DIELECTRIC CONSTANT..........................................................5.9 TO 6.4

ELASTIC RECOVERY, %..........................................................100

K-FACTOR (Thermal Conductivity) Btu/hr. ft.degF..................0.3385

Thermal resistance rating R of ...............................................1.7

USE LIMIT, deg F (max).......................................................2000

MELTING POINT....................................................................3000

CHEMICAL PROPERTIES

Thermo-Tec products possess excellent resistance to chemical attack. Exceptions include hydrofluoric and corrosive elements at elevated temperatures. Thermo-Tec products are unaffected by oil or water. Thermal and physical properties are restored after drying. Data are average results of tests conducted under standard procedures and are subject to variation.