



Technical data sheet

No burning, No melting, No dripping
 No smoking, No shrinking

With its high resistance to chemical products and its nearly non-existent smoke and fume emission when exposed to high temperature, IMAT'Fire is the suitable fibre to be used in a large range of fire & heat proof products.

MECHANICAL PROPERTIES

Tenacity :	13 - 15 cN/Tex
Elongation :	10 - 20 %
Density :	1.5 g/cm ³

Water absorption :	47%
Water regain :	11%
Shrinkage in boiling water :	approx. 0%

THERMAL PROPERTIES

Thermal conductivity :	45 mW/ m .°C
Calorific value :	4300 Kcal/kg
Thermal shocks:	> 300°C

FIRE BEHAVIOUR

L.O.I. :	> 40
Continuous temp. of use :	230 - 250°C
Auto-ignition:	435°C (100% O ₂)
Smoke and gas :	H ₂ O and negligible traces of HCN, HCl, Nox

ALCALI AND ACID RESISTANCE

Very good. Non soluble in common solvents.
 After 24h at 200°C, retains 100% of mechanical properties.

NORMS

U.V. stability (Dyed) :	100h Xenotest
Fire and smoke classification :	M1 - F1
EN 15025 (Flame resistance) :	level 7
EN 367 (heat conduction) :	7 seconds

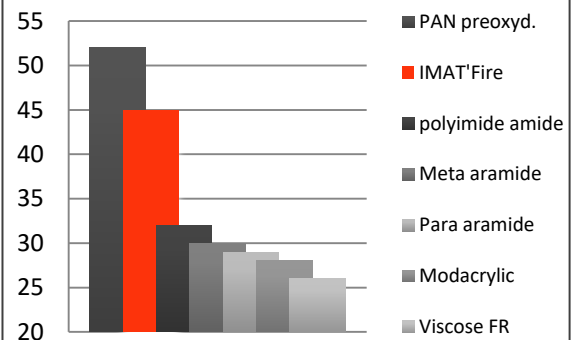


IMAT'Fire offers the same insulating performances as rock wool. It is then used in heat protection as well as upholstery or technical fabrics that need a reduction of weight.

AVANTAGES

- ✓ High heat insulation
- ✓ Anti-microbial
- ✓ Soft hand touch
- ✓ Very poor smoke production
- ✓ Good chemical resistance

L.O.I. COMPARATIVE



FIBRE BLENDS

IMAT'Fire provides highest values for heat and flame resistance in specific applications when used in synergy with other technical fibers.

IMAT' Fire STATIC : Blended at different percentage with stainless steel.

IMAT' Fire FR : Blended at different percentage with wool, viscose FR, PES CS, Modacrylique...

IMAT' Fire ARMOR : Blended at different percentage with high tenacity fibre (Aramids, Vectran...)



Large range of colors is available. Please contact us for more precision.