



SOLVENSEAL KP UNIVERSAL FLUOROPROTEINIC 6% (FP/AR)

SOLVENSEAL KP is a fluoroprotein-based universal liquid foaming agent with fluoride polymers which offer resistance to the chemical action of polar solvents.

The extinguishing effect of SOLVENSEAL KP on hydrocarbons is comparable to that of a strengthened fluoroprotein product, which nevertheless produces a foam with more enhanced spreading and covering characteristics.

While fluoroprotein or filming foaming agents are exclusively used on hydrocarbons (since the foam is rapidly dehydrated and broken by polar solvents), SOLVENSEAL KP is suitable for suppression of fires caused by hydrocarbons or polar solvents.

Unlike protein-based foaming agents used for alcohols (suitable for fires of polar solvents), SOLVENSEAL KP finds applications on a wide range of fuels and its foam spreads more rapidly on the fuel surface and is much more resistant to breakdown of aggressive solvents.

SOLVENSEAL KP has the special ability to produce a thick foam layer (at low and medium expansion levels) with low permeability to vapours; this prevents fuel vaporization, thus making SOLVENSEAL applicable in those fire situations where solvents with high vapour tension are involved and where there is a significant risk of re-ignition.

Other characteristics

- Long storage time (at the conditions recommended)
- Solution stability in both fresh and salt water
- High extinguishing capability of fires of hydrocarbons, even in applications with direct injection in the fuel and with low specific application
- High extinguishing capability of fires of polar solvents
- Biodegradability and harmlessness in normal operating conditions
- Compatibility with extinguishing powders
- Freezing point $\leq -13^{\circ}\text{C}$

SOLVENSEAL KP is approved by: RINA, Ministry of Internal Affairs of Italy, Czech Republic, Hungary, Croatia, Slovak Republic, Uzbekistan



Product name	SOLVENSEAL K 6
Classification	Universal Fluoroproteinic (FP/AR)
Type	Standard
Appearance	Brown Newtonian Liquid
Concentration (% v/v)	6 on hydrocarbons 6 on polar solvents
Freezing temperature (°C)	≤ -13
Viscosity + 20°C (mm ² /s)	≤ 30
- 10 °C (mm ² /s)	≤ 60
Density at 15°C (g/ml)	1.12 ± 0.02
pH at 20°C	7.0 ± 0.5
Sediments (%)	≤ 0.1
Compatibility with powders	Good
Minimum operating temp. (°C)	- 10
Max. storage temp. (°C)	+ 45 continuous + 60 intermittent

Foaming properties

As for any foaming agent, the foaming properties strongly depend on the efficiency of the equipment installed and the operating conditions.

When tested under the ISO 7203/UNI 9493/EN 1568 specifications, the product shows the following performance:

- Expansion ratio: ≥ 7
- Drainage time of 25% of the product: ≥ 6 min

Storage

Solvenseal KP is a stable product and, if stored in the original containers, has a shelf-life of (at least) five years.

Environmental compatibility

Solvenseal KP is biodegradable. The concentrate and its solutions are normally disposed of in a biological treatment plant.

Standard containers and product codes

Container	Basket	Drum	Tank
Nominal capacity (l)	30	220	1050
Size (mm)	375 X 284 X 397 H	581 D X 935 H	1200 X 1000 X 1155 H
Container tare mass (kg)	1.5	8.5	63
Material	High density Polyethylene High molecular weight	High density Polyethylene High molecular weight	High density Polyethylene Galvanised steel
Container approval	UN 3H1/Y1.8/250	UN 1H1/Y1.9/200	UN 31HA1/Y/(1)F
Net weight of the product (kg)	28	230	1100
Protein K 6 code number	1807290025	1807290200	1807291000



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