



SINTO K 4S SIYNTHETIC 2+6% (S)

SINTO K 4S is a concentrate which consists of synthetic surfactants, special stabilising compounds and solvents. This foaming agent forms a stable foam with marked mechanical properties and extinguishing potential.

The flexibility of SINTO K 4S makes it suitable for application via nozzle and foam generating units with low, medium, high and very high expansion ratios. This permits the rapid covering of surfaces and filling of volumes. Medium- and high-expansion foams are particularly recommended in the situations where water or low-expansion foams could cause material damage.

SINTO K 4S can be used with fixed and movable equipment, both with fresh and sea water, to suppress class A (flammable solids) and class B (hydrocarbons) fires.

Other characteristics:

- SINTO K 4 S permits foam production with expansion ratios from 2 to 1000:1 (standard) and 2000:1 (very high expansion).
- Foam has an excellent adhesion capability to the container's walls, and therefore has a cooling effect on the surfaces.
- The concentration of the product depends on the class of fire (using any foam compound system): 2% if wetting is required (class A fires), 3-6% if the extinguishing effect is required (class B hydrocarbon fires).
- SINTO K 4 is non-toxic, non-corrosive and easily biodegradable.
- Freezing point $\leq -12^{\circ}\text{C}$

SINTO K 4 S is approved by RINA and the Ministries of Internal Affairs of Italy, Hungary, Croatia, Uzbekistan, Czech Republic and Slovak Republic.



Product name	SINTO K 4S
Classification	Synthetic
Type	Standard
Appearance	Brown Newtonian Liquid
Concentration (% v/v)	2 – 6 %
Freezing temperature (°C)	≤ -12
Viscosity + 20°C (mm ² /s)	≤ 20
- 5 °C (mm ² /s)	≤ 80
Density at 15°C (g/ml)	1.05 ± 0.02
pH at 20°C	7.5 ± 0.5
Sediments (%)	≤ 0.1
Compatibility with powders	Good
Minimum operating temp. (°C)	- 10
Max. storage temp. (°C)	+ 60 Continuous

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: ≥ 9
- Drainage time of 25% of the product: ≥ 9 min

Storage

Sinto K 4S is a stable product and, if stored in the original containers, has a shelf-life of (at least) ten years.

Environmental compatibility

Sinto K 4S 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)	27	214	1070
Protein K 6 code number	1807210025	1807210200	1807211000



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