



SIPPRO

Process Oils for Silicone Sealants

High-quality speciality fluids for use in the formulation of both professional and domestic silicone sealants

- Professional quality silicone sealants
- Economic DIY grades
- Multi-purpose sealants
- Bathroom sealants
- Glazing sealants

- ✓ Exceptional solvency
- ✓ Excellent compatibility
- ✓ More economic than alternative sealant fluids
- ✓ High purity with very low sulphur and aromatics
- ✓ Colourless and odourless
- ✓ Fluid at low temperatures
- ✓ Very low evaporation rates
- ✓ Good colour stability
- ✓ Sustainable products

The SIPPRO portfolio provides a wide range of highly refined and treated mineral oils for use as solvents and extender fluids in both professional and domestic silicone sealants. This product range enables silicone sealant formulators to choose the oil which provides the best balance of performance and cost for the intended sealant application. The range encompasses oils of both paraffinic and naphthenic types, with a range of viscosities, pour points and volatilities.

SIPPRO products are available with viscosities from 3 cSt to 9 cSt at 40°C, have a high degree of iso paraffin content and are very pure with extremely low levels of sulphur and aromatics.

They are clear, colourless and have excellent UV stability which enables reduced yellowing and good transparency in finished sealants. Some of the grades are of technical white oil quality meeting FDA 21 CFR 178.3620B requirements for incidental food contact applications. Due to their excellent solvency, lower addition rates of SIPPRO process oils are required in high-quality sealant formulations versus other types of solvents helping to reduce the formulation costs.

SIP also include SIPPRO ECO oils in the range which have an improved sustainability profile offering sealant producers an effortless way to reduce the carbon footprint of existing formulations.

The demand for silicone sealants and range of applications is predicted to increase significantly over the next 10 years in line with the expected growth of the construction and DIY sectors.

SIP understands that whilst all silicone sealants need to have similar basic adhesive properties, each formulation is developed to meet specific construction, industrial and domestic application requirements. The SIPPRO range is designed to provide a choice of fluids that allows different dosage rates to produce sealants that form strong adhesive bonds, are resistant to weathering and moisture whilst operating over a wide range of temperatures.

The SIPPRO paraffinic fluids are exceptionally pure and have extremely low levels of sulphur and aromatics ensuring good long-term UV stability and preventing yellowing of the finished sealant. They have excellent solvency and are stable in silicone resins at up to 20% content. Some of the SIPPRO oils have very low pour points and sufficiently high flash points to allow them to maintain good operability over a range of temperatures. These fluids ensure there is minimal shrinkage of the sealant and that it maintains tensile properties.

Because of their high solvency, the SIPPRO N naphthenic oils can be introduced into silicone sealants at a high concentration and with their excellent low temperature fluidity, the sealant formulation still operates well at very low temperatures.

SIPPRO ECO, A PATHWAY TO SUSTAINABILITY

In response to the trend towards sustainability in the sealants market, the SIPPRO range includes a number of re-refined fluids to help customers on their way to net-zero and support a circular economy. Developing new sealant formulations with sustainable re-refined oils is an excellent way to reduce the carbon footprint of existing products and help brands stand out.

SIPPRO 4, 6 and 9 ECO are the result of a superior process for re-refining used mineral oils, which produces new base oils indistinguishable in quality from virgin mineral base oils. More importantly, these products give up to an 80% reduction in carbon emissions compared to conventional base oils.

TYPICAL CHARACTERISTICS OF SIPPRO BASE FLUIDS

CHARACTERISTICS	SIPPRO 3N	SIPPRO 4H	SIPPRO 4T	SIPPRO 9H	SIPPRO 9N	SIPPRO 4 ECO	SIPPRO 6 ECO	SIPPRO 9 ECO
Viscosity @ 40°C (cSt)	3.8	3.8	4.3	9.5	9.7	4.2	6.3	8.8
Pour Point (°C)	-62	-54	-57	-39	-59	-15	-9	-15
Flash Point (°C)	115	115	120	160	146	115	140	180
Aniline Point (°C)	58	85	95	104	71.2	95	90	99
Sulphur Level (ppm)	<1	<1	<1	<1	50	<3	<5	<3

The above data is typical and may not fully reflect the product specification.



SIP SPECIALITY OILS AND FLUIDS

For more than 35 years SIP Speciality Oils and Fluids has been a respected and recognised independent marketer and distributor. Based in London, we have been supplying customers in Europe and the wider African and Middle Eastern markets for many years. SIP has one of the most comprehensive product portfolios, covering a wide range of base fluids for many product applications. We are especially known for our extensive range of viscosity

grades of mineral white oils with Halal, Kosher and Vegan approvals, and our premium oils for industrial and drilling applications. We manage our own vessel and road tanker operations in-house, based around our storage hubs in North West Europe and the UK. We pride ourselves on our ability to deliver where our competitors cannot by giving you tight lead times, support for unusual viscosity grades, and our own experienced in-house technical services and operations team who offer a bespoke service.

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