

SIPMET

Hydrotreated
base oils for premium
neat
Metalworking
Fluids

SIP LTD

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SIP LTD

SIP LTD is a leading supplier of speciality base oils and fluids throughout Europe, Africa and the Middle East.

SIP oils and fluids are used in a wide variety of applications, including metal working fluids, transmission oils, drilling fluids and in pharmaceutical and cosmetic preparations

SIP maintains over 20,000 MT storage capacity within Europe and can deliver products by ship, road tanker, barge, iso container, flexibag and drums. Independent inspectors certify that all products meet quality guarantees.

SIP has **ISO 9001:2008** accreditation.

SIPMET series

The SIPMET range has been designed specifically for formulating premium neat metalworking fluids.

SIPMET 2 has a very low viscosity and is ideal for blending EDM fluids with flash points greater than 100°C.

SIPMET 4, 7, 9 & 12 have extremely good volatility and flash points, which make them ideal for blending oils meeting stringent factory environmental requirements for oil mist. The SIPMET range have only trace levels of Polycyclic Aromatic Hydrocarbons (PAH's), which help overcome manufacturer's concerns with the health and safety issues of their metal working fluids.

Features of the SIPMET Series

- **Non-Toxic.** SIPMET oils have only trace levels of Polycyclic Aromatic Hydrocarbons (PAH) levels as tested by IP 346 & GCMS which provides a positive benefit for the end-user with respect to health and safety.
- **Superior Volatility.** Low Noack Volatility figures, especially for the higher viscosities, give better oil mist control & reduced oil consumption and therefore lowers oil top up.
- **Colourless and Odourless.** Also extremely low levels of Sulphur and Nitrogen, provide better acceptability in an industrial environment with better overall end user acceptability, especially with respect to tool visibility.
- **Exceptional Oxidation Performance.** Under severe conditions SIPMET oils provide superior oxidation stability, lower sludge levels and therefore longer life.



Typical Qualities of SIPMET base stocks.

Product	ASTM		SIPMET 2	SIPMET 4	SIPMET 7	SIPMET 9	SIPMET 12
	Method						
Viscosity at 40°C,	cSt	D445	2.4	3.6	7.5	9.3	12.1
Viscosity at 100°C,	cSt	D445	1.0	1.4	2.3	2.5	3.1
Flash point – COC,	°C	D92	104	137	160	170	184
Flash point – PMCC,	°C	D93	-	-	-	-	-
Pour point,	°C	D97	<-33	<-21	<-21	<-21	<-21
Density at 15°C,	kg/l	D1298	0.817	0.826	0.825	0.83	0.83
Aniline point,	°C	D611	76.8	85.3	102.5	104.5	109.5
Carbon type analysis,	%	D2140					
Aromatics,	C _A		<1	<1	<1	<1	<1
Naphthenics,	C _N		40	33	28	28	25
Paraffinics,	C _P		60	67	72	72	75
Colour – ASTM		D 1500	< 0.5	<0.5	< 0.5	< 0.5	< 0.5
Noack at 200°C,	%wt	D5800mod	-	-	25	17.2	6.2
Odour			Very mild	Very mild	Very mild	Very mild	Mild
UV (DMSO extract)		D2269	Pass	Pass	Pass	Pass	Pass
- FDA 178.3620 (b-ii)							

Detailed product specifications are available on request from **SIP**.

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