

# SIPDRILL

## INVERT BASE FLUIDS

Low toxicity  
Water-white  
Low odour

# SIP LTD

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### SIP LTD

SIP 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.

### SIPDRILL BASE FLUIDS

The SIPDRILL Series are cost effective low viscosity, drilling base fluids, with viscosities from 1.7 to 3.9 cSt @ 40°C.

The SIPDRILL range offers the drilling fluid formulator many beneficial properties which includes having only trace aromatics, high flash points, very low marine toxicity and world class occupational hygiene characteristics.

### Features of the SIPDRILL Series.

- **Health, Safety and Toxicity.** SIPDRILL fluids exhibit very low levels of toxicity & have excellent occupational hygiene characteristics. They contain only trace levels of polycyclic aromatics and are registered with the Offshore Chemical Notification Scheme (OCNS).
- **Colourless.** The purity of the SIPDRILL range is demonstrated by their "water white" +30 Saybolt colour.
- **Volatility and Flash Point.** Relatively low volatility and high flash points compared with solvent refined oils of equivalent viscosity.
- **Superior Oxidation Characteristics.** SIPDRILL fluids provide exceptionally good thermal and oxidation stability

## Typical Qualities of the SIPDRILL invert drilling base fluids

Product:			SIPDRILL 1LV	SIPDRILL 1	SIPDRILL 2/0	SIPDRILL 2/0 S	SIPDRILL 2/0 AG	SIPDRILL 4DP	SIPDRILL 4/0
ASTM Method									
Viscosity at 40°C,	cSt	D445	1.73	2.35	1.75	2.3	1.89	2.7	3.6
Density at 15°C	kg/l	D1298	0.810	0.815	0.760	0.780	0.762	0.813	0.875
Flash point, PMCC,	°C	D93	76	102	95	90	83	104	123
Pour point,	°C	D97	<-30	-21	-9	-15	-3	<-45	<-48
Aniline point,	°C	D611	72	79.6	87	87	-	83.6	91
Aromatics by UV,	%wt	D2008 (mod)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1*
Sulphur	ppm	D3120	<5	<5	<5	<5	<5	<5	<5
Colour	Saybolt	D 156	+30	+30	+30	+30	+30	+30	+30
Odour	Mild								
Appearance	Clear & bright								

\* Aromatic Content measured by IP391 HPLC method.

All products are acceptable for use under the conditions of OSPAR Decision 2000/2 - "List of Notified Chemicals".

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

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