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## AFRIQ MINING SOLVENT 2325

### DESCRIPTION

Afriq Mining Solvent 2325 is a wide cut mixture of paraffin's, cycloparaffins and aromatics that boils in between 220 °C and 250 °C. As a consequence of its increased boiling range level Afriq Mining Solvent 2325 can be considered as a high flash, slow evaporating type of hydrocarbon solvent.

### APPLICATION

Afriq Mining Solvent 2325 primary usage is as a solvent in metallurgical applications such as the liquid/liquid extraction of Copper, Uranium and other precious metals. It is also used as a fuel in the manufacture of explosives for the mining industry and in printing inks. Afriq Mining Solvent 2325 exceeds the Chamber of Mines flash point requirements for solvents, used underground.

### STORAGE AND HANDLING

Provided proper storage and handling precautions are taken we would expect Afriq Mining Solvent 2325 to be technically stable for at least 12 months. For detailed advice on Storage and Handling please refer to the Material Safety Data Sheet.

### TYPICAL PROPERTIES

PROPERTY	UNIT	METHOD	VALUE
Refractive Index @ 20 °C	-	ASTM D1218	1.452
Density @ 20 °C	Kg/l	ASTM D4052	0.814
Colour	Say bolt	ASTM D156	+30
Cubic Expansion Coefficient @ 20 °C	(10 <sup>-4</sup> )/ °C	-	9



Naphthenes	% m/m	GC	35
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	0.01
Benzene	Mg/kg	GC	<10
Paraffin's	% m/m	GC	44
Distillation, 50 % v	°C	ASTM D1078	226
Distillation, IBP	°C	ASTM D1078	217
Distillation, DP	°C	ASTM D1078	241
Aromatics	% v/v	ASTM D1319	19
Sulphur	Mg/kg	ASTM D5453	<20
Explosion Limit: Upper	% v/v	-	6.5
Explosion Limit: Lower	% v/v	-	0.7
Flash Point	°C	ASTM D93	89
Viscosity @ 25 °C	mm <sup>2</sup> /s	ASTM D445	2.2
Electrical Conductivity @ 20 °C	pS/m	-	<1
Aniline Point	°C	ASTM D611	64
Hildebrand Solubility Parameter	(cal/cm <sup>3</sup> ) <sup>1/2</sup>	-	7.7
Hydrogen Bonding Index	-	-	0.4
Surface Tension @ 20 °C	mN/m	Du Nouy ring	28
Pour Point	°C	ASTM D97	<-30