



## Hyspin AWW 32

Very High VI Hydraulic Oil

### Description

Hyspin AWW 32 is a premium quality hydraulic fluid with a very high viscosity index.

### Application

Hyspin AWW 32 is suitable for use in deck equipment on ships operating between extremes of climatic conditions. Hyspin AWW 32 is also suitable for use as a hydraulic fluid for hatch cover operating systems on reefer vessels.

### Features / Benefits

Hyspin AWW 32 is a blend of selected naphthenic base oils and polymers. This results in an oil which, when compared with conventional hydraulic fluids, has a greatly reduced variation in viscosity with temperature change. Hyspin AWW 32 may therefore be used in systems operating in climatic conditions varying from sub-Arctic to Tropical. Hyspin AWW 32 is fully inhibited against oxidation and contains additives to prevent corrosion and foaming. Unlike very high VI aircraft hydraulic fluids, Hyspin AWW 32 uses conventional anti-wear technology to ensure compatibility with standard hydraulic oils such as the Castrol Hyspin AWH-M range.

### Technical Data

Name	Method	Units	Hyspin AWW 32
ISO Grade			32
Density @ 15°C, Relative	ISO 12185 / ASTM D4052	g/ml	0.878
Kinematic Viscosity @ 100°C	ISO 3104 / ASTM D445	cSt	11.01
Kinematic Viscosity @ 40°C	ISO 3104 / ASTM D445	cSt	32
Kinematic Viscosity @ -40°C	ISO 3104 / ASTM D445	cSt	1,600
Viscosity Index	ISO 2909 / ASTM D2270	-	355
Flash Point, PMCC	ASTM D93	°C	218
Pour Point	ISO 3016 / ASTM D97	°C	-57
Foam Sequence I, Tendency / Stability	IP 146	mls	25/0
Air Release Value	IP 313	min	3
Copper Corrosion, 3 hrs @ 100°C	IP 154	-	Class 1
Rust Prevention	IP 135B	-	No Rust
Four Ball Wear, 1h, 30 Kg, 1460 rpm MWSD	IP 239	mm	0.35

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

## Compatibility

With the exception of silver plated components Hyspin AWV 32 is compatible with all metals and construction materials used in marine hydraulic systems.

Hyspin AWV 32 is compatible with all seal materials used in systems designed to operate with mineral oils.

## Packaging and Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings.

Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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08 Jul 2011

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