

Description

ISO VG 22 is a rapidly biodegradable hydraulic oil, comprised of unique biodegradable synthetic hydrocarbon basestocks blended with environmentally friendly additives that have been carefully selected to maximise technical performance while meeting the stringent requirements of the OSPAR convention

Biobased

Biobased, biodegradable, non-bioaccumulative, non-aquatic toxic and not toxic to plants. Based on evaluation of the base oils and the finished products, the biobased products are designed to be biodegradable, aquatically non-toxic, not bioaccumulative and with no impact on plants as determined by known test methods. Nevertheless, the use of all the products are subject to the local ordinances and ultimate responsibility for impact remains with the users

Applications

ISO VG 22 is suitable for the wide range of hydraulic systems utilised on offshore vessels, rigs and underwater remotely operated vehicles (eg. deck cranes, winches, underwater grabbing arms etc.) This product has been designed for utilisation in closed systems from which incidental release of the hydraulic fluid could have an environmental impact

Benefits

- Rapidly biodegradable (> 70% OECD 301B). The formulation has been blended to meet OSPAR requirements (CEFAS) without being designated substitution warnings (Application in progress)
- Excellent oxidation stability through the use of synthetic base oils. Minimal ester content ensures significantly better hydrolytic stability than related ester-based fluids
- Superior air and water separation through the use of a non-polar basis oils
- Carefully balanced formulation to ensure the elimination of significant seal swelling and contraction
- Compatible with the paint coatings, elastomers and seals generally used alongside mineral oils
- Excellent shear stability
- Meticulous selection of additives, to ensure better wear protection than related ester-based fluids alongside good corrosion and non-ferrous metal protection
- Good temperature/viscosity behaviour, alongside a low pour point
- Renewable carbon content (> 45%), making Nautilus a sustainable alternative

Properties	Test Method	Typical Values
Viscosity Class	ISO VG	22
Colour	DIN ISO 2049	Yellow/light brown
Density @ 20 °C	ASTM D 4052	0.83
Viscosity @ 40 °C	DIN 51562-1	21
Viscosity @ 100 °C	DIN 51562-1	4.56
Viscosity index	DIN ISO 2909	135
Pour point	ASTM D 5950	-45
Flash point	DIN EN ISO 2592	>224
Iodine number	DIN 53241-1	>5
Biological degradability	ISO 9439/OECD 301B	<70

Packaging	Gallons	Litres
Pail	5	19
Drum	55	208
Bulk Tote	As required	1040

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