

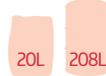


Hydraulic Fluid

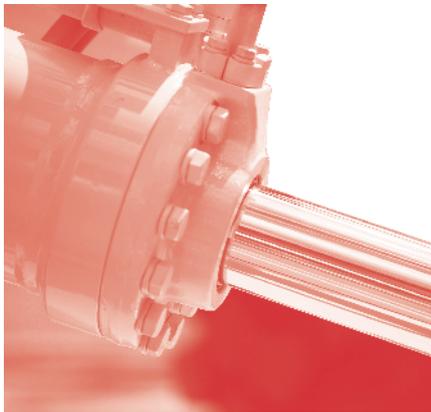
Technical Data Sheet (TDS)

MARISEA-HVLP

Tajhiz Niroo Zangan is a public stock company and manufacturer of various lubrication products, used in automotive, industrial and marine equipment, including gasoline and diesel engine oils, gear oils, hydraulic fluids, compressor oils, locomotive oils, greases, heavy-duty marine diesel engine oils, trunk piston oils, cylinder oils, antifreeze, ...



HYDRAULIC FLUID HVLP



High-Performance Hydraulic Fluid, HVLP

MARISEA*-HVLP Series are a range of high-performance and anti-wear hydraulic fluids, based on group II base stocks, available in ISO VG 32, ISO VG 46 and ISO VG 68. These hydraulic fluid series provide reliable filterability, rapid air release, and corrosion protection. MARISEA-HVLP Series are ideally suited to most mobile equipment and other applications, subjected to a wide range of ambient or operating temperatures specially for marine applications, where ISO HV category hydraulic fluids are recommended. These products are formulated with advanced additive packages, meeting the performance requirements of Parker Denison (HF-0, HF-1, HF-2), ISO 11158 (HM, HV Fluids), DIN 51524 Part 3 (HVLP), ASTM D6158 (HV Fluids) and Eaton Vickers M-2950-S.

APPLICATIONS

- Hydraulic systems operating under high pressures and requiring high degree of load carrying capability and anti-wear protection
- Applications requiring extended oil change intervals
- Most hydraulic pumps
- Critical hydraulic systems such as high accuracy numerically controlled machine tools and those employing close clearance servo valves
- Hydraulic systems of excavators, cranes and hydrostatic drives, subjected to most severe outdoor operating conditions

BENEFITS

- Resistant to high pressure
- Prevention of sludge and sediment build-up
- Superior air release property
- Seal compatibility
- Outstanding protection and performance across a wide range of temperatures
- Excellent water separability
- Excellent filterability
- Including efficient anti-foam
- Extended pump lifetime

Hydraulic Fluid, HVLP [DIN 51524 Part 3]

Specification	ISO VG			ASTM Test Method
	32	46	68	
Viscosity @ 40 °C, cSt	32	46	68	D 445
Viscosity Index, Min	143	145	148	D 2270
Density @ 15 °C, kg/m ³	854	856	860	D 1298
Flash Point, °C	215	220	230	D 92
Pour Point, °C	-39	-36	-30	D 97
Emulsion Test @ 54 °C, mins. Max	20	30	30	D 1401
Foam after 10 mins. Sequence I, II, III, ml	Nil	Nil	Nil	D 892

*MARISEA: Taken from the name of a powerful and strong horse, named Marismeño, known as Marsh Horse