



PRODUCT DATA SHEET



PRODUCT NAME/VISCOSITIES: MILLMAX HV RANGE

Issue No.	3
Issue Date	17/03/20

DESCRIPTION:

The Millmax HV hydraulic oil range offers reliable protection against corrosion and wear for systems subject to temperature variations e.g. outdoor equipment, allowing maximised power transfer for efficiency in industrial applications.

APPLICATION:

Use as received in hydraulic and fluid power systems where a high viscosity index is required.

Viscosity (cSt)	Applications
15	Hydraulic brake systems and power steering.
22	Mobile equipment and some airline lubrication applications.
32, 37	Hydraulic cylinders, systems with close clearance servo valves.
46	High pressure systems.
68	Systems requiring load-carrying capability.
100	Heavy loaded industrial machines, systems containing gears and bearings.

USER BENEFITS:

- High viscosity index ensures consistent performance across a wide temperature range.
- Incompressibility provides effective power transfer in hydraulic systems.
- Zinc-based anti-wear properties protect equipment for longer component life.
- Good thermal and oxidation stability for extended cleanliness.
- Low foaming formulation minimises aeration and cavitation for consistent power transfer.
- Good compatibility with elastomers and seals for longer seal life and reduced maintenance.

PERFORMANCE PROFILE:

- DIN 51524 part II & part III
- Parker (Denison) HF-0, HF-1 & HF-2
- Eaton M-2950-S (35VQ25 pump test)
- ISO 20763 Conestoga vane pump test
- ISO 11158 categories HH, HL, HM & HV
- ASTM D6158





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- SAE MS1004
- Vickers I-286-S3 (Industrial equipment)
- Cincinnati Machine P-68, P-69 & P-70
- Bosch Rexroth 90220
- JCMAS P041 HK Hydraulic Specification
- ANSI/AGMA 9005-E02-RO
- GM LS-2
- AIST 126 (US Steel)
- AIST 127 (US Steel)
- SEB 181222

TYPICAL CHARACTERISTICS:

Millmax HV	15	22	32	37
Specific Gravity @ 15°C	0.846	0.862	0.871	0.866
Kinematic Viscosity @ 100°C	4.2cSt	5.4cSt	6.6cSt	7.5cSt
Kinematic Viscosity @ 40°C	15cSt	22cSt	32cSt	37cSt
Viscosity Index	204	197	168	176
Pour Point (°C)	-33	-36	-36	-39
Flash Point (°C)	150	158	193	197
Health & Safety/Product Code	5232	5247	5160	5233

Millmax HV	46	68	100
Specific Gravity @ 15°C	0.863	0.868	0.882
Kinematic Viscosity @ 100°C	8.2cSt	11.1cSt	13.8cSt
Kinematic Viscosity @ 40°C	46cSt	68cSt	100cSt
Viscosity Index	153	152	147
Pour Point (°C)	-42	-39	-36
Flash Point (°C)	200	209	218
Health & Safety/Product Code	5228	5239	5234

HEALTH AND SAFETY:

Safety data sheets are available on request. When used for the purpose recommended and with due regard to the appropriate health and safety data, the product should cause no concern. If in doubt, consult with Millers Oils Technical Department.

For Technical assistance call +44 (0) 1484 475060 or email technical@millersoils.co.uk

