



PRODUCT DATA SHEET



PRODUCT NAME/VISCOSITIES:
MILLMAX RANGE

Product No	
Issue No.	2
Issue Date	06/02/18

DESCRIPTION:

The Millmax hydraulic oil range offers reliable protection against corrosion and wear, whilst maximising power transfer for efficiency in industrial applications.

APPLICATION:

Use as received in hydraulic systems where anti-wear type mineral oil is required.

Viscosity (cSt)	Applications
2,5, 10	High speed spindles and airline lubrication.
15	Hydraulic brake systems and power steering.
22	Mobile equipment and some airline lubrication applications.
32, 37	High powered machine tools (CNCs), hydraulic cylinders, systems with close clearance servo valves.
46	Injection moulding, high pressure systems.
68	Systems requiring load-carrying capability.
100, 150, 220	Heavy loaded industrial machines, systems containing gears and bearings.

USER BENEFITS:

- 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.





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PERFORMANCE PROFILE:

- DIN 51524 Part 2. Exceeds DIN 51517 performance requirements.
- 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
- 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)
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- SEB 181222

TYPICAL CHARACTERISTICS:

Millmax	2	5	10	15	22	32
Specific gravity @ 15°C	0.818	0.840	0.879	0.873	0.872	0.873
Kinematic viscosity (csSt) @ 100°C	n/a	n/a	2.5	3.4	4.3	5.2
Kinematic viscosity (cSt) @40°C	2.2	4.5	10	15	22	32
Viscosity index	n/a	n/a	n/a	79	95	99
Pour point (°C)	n/a	n/a	-30	-12	-12	-15
Flash point (°C)	70	100	140	174	203	218
Part code	5187	5141	5021	5025	5028	5037

Millmax	37	46	68	100	150
Specific gravity @ 15°C	0.875	0.876	0.880	0.885	0.893
Kinematic viscosity (cSt) @ 100°C	6.0	6.9	8.9	11.2	14.2
Kinematic viscosity (cSt) @ 40°C	37	46	68	100	150
Viscosity index	100	99	104	97	96
Pour point (°C)	-30	-30	-18	-18	-12
Flash point (°C)	211	230	233	253	250
Part code	5042	5155	5047	5144	5051



INDUSTRIAL



MILLERS OILS

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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



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