

HM-A

HYDRAULIC OILS ISO HM CLASSIFICATION

220173-220174-220175-220176/02.15

Rev. 1

DESCRIPTION & APPLICATIONS

The HM-A line is a series of high quality zinc-based hydraulic oils with special high stability antiwear additive.

HM-A is recommended for use in all high-performance industrial and mobile applications demanding ISO HM classification.

HM-A is also recommended for spur wheel gears under normal pressure conditions.

ADVANTAGES

- Thermal stability
- Oxidation inhibited
- Reduces wear
- Special high stability anti-wear additive minimises hydrolysis

PERFORMANCES

Satisfies to the following specifications:

DIN 51524 Teil 2 HLP

ISO 6743 HM

DENISON HF1/HF2

NFE 48600 HM

NFE 60200 HM

CINCINNATI P69(ISO68)/P70(ISO46)

ENVIRONMENT, HEALTH & SAFETY

Please consult also the Safety Data Sheet about how to manipulate and to stock the product as well as to learn about the first aid measurements in case of accident.

Elimination after use must be made in conformity with the local rules in force about used oils disposal.

When needed, Safety Data Sheet can be obtained upon request.

Conservation of the product: 3 year(s) in closed container and sheltered.

HM-A

PROPERTIES

CHARACTERISTICS	UNITS	METHODS	TYPICAL DATA			
ISO VG	-	-	22	32	46	68
Specific gravity at 15°C	kg/m ³	NFT 60101	865	870	872	878
Kinematic viscosity at 40°C	mm ² /s (cSt)	NFT 60100	22,7	32,6	46,0	68
Kinematic viscosity at 100°C	mm ² /s (cSt)	NFT 60100	4,9	5,6	6,8	8,7
Viscosity index	-	NFT 60136	102	109	101	99
Flash point	°C	NFT 60118	216	222	228	238
Pour point	°C	NFT 60105	-30	-27	-24	-18
TAN (TotalAcid Number)	mg KOH/g	ASTM D 664	0,30	0,30	0,30	0,30
Product number	-	-	220173	220174	220175	220176

The average values are given for information only.