

HVB

HIGH VISCOSITY INDEX HV HYDRAULIC FLUID



HV HYDRAULIC RANGE

CATEGORY ISO-L-HV

ISO GRADE FROM 15 TO 100

STANDARDS & SPECIFICATIONS

DENISON HF2

EATON BROCHURE 3-401-2010



APPLICATIONS

HVB is intended for hydraulic systems operation at high pressures and installations in which there are wide temperature variations.

HVB is essentially intended for applications requiring a high viscosity index fluid for general industrial, handling and civil engineering applications.

BENEFITS

- **HVB** is available over a **wide range of ISO grades**, from grade 15 to grade 100.
- The **viscosity index 150** of **HVB** enables use on installations in which there are wide temperature variations: easy cold starts, perfect hot lubrication.
- **HVB** has very **high shear strength**, therefore increased life and more widely spaced fluid changes.
- **HVB** is **approved by many manufacturers** recommending an HV class fluid, for lifting, handling and civil engineering and industry.
- **Its high hydrolytic and oxidation stability** guarantees cleanliness of hydraulic systems and component service life.
- **HVB** remains **filterable**, with or without presence of water.
- **HVB** has a very good air release, a quick demulsibility and **excellent anti-wear properties**, for all pumps with high pressures (350 bars and more).

PERFORMANCES

PERFORMANCE LEVELS

ISO 11158 Category HV
ISO 6743-4 Category HV
NFE 48603 Category HV
DIN 51524 Partie 3 Category HVLP

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CHARACTERISTICS

CHARACTERISTICS	UNITS	METHODS	TYPICAL DATA					
ISO grade	-	-	15	22	32	46	68	100
Colour	-	visual	Red					
Specific gravity at 20°C	kg/m³	NF T 60-101	838	863	867	870	881	884
Kinematic viscosity at 40°C	mm²/s	NF T 60-100	14,6	23,7	35	48,4	66,7	107,4
Kinematic viscosity at 100°C	mm²/s	NF T 60-100	3,8	5,1	6,7	8,4	10,65	15,1
Viscosity index	-	NF T 60-136	160	150	151	150	149	150
Pour point	°C	NF T 60-105	-36	-36	-36	-36	-33	-33
Flash point	°C	NF T 60-118	138	152	166	192	224	238
Aniline point	°C	NF M 07-021	99	103	103	105	105	107
TAN	mg KOH/g	ASTM D 664	0,5					
Foaming sequence I	ml	NF T 60-129	0/0					
Foaming sequence II	ml	NF T 60-129	0/0					
Foaming sequence III	ml	NF T 60-129	0/0					
Air release at 50°C	min	NF T 60-149	2		6		8	
Demulsibility	ml (min)	NF T 60-125	40/40/0(20)					
Copper corrosion	quotation	NF M 07-015	1a					
Rusting test	-	NF T 60-151 A	Pass					
Hydrolytic stability 48h at 93°C	-	ASTM D 2619	Pass					
Resistance to oxidation	hour	NF T 60-150	1500					
Thermic stability	-	CINNATI PROCEDURE	Pass					
FZG damage load stage	-	DIN ISO 14635-1	7		8	9	10	
AFNOR filterability dry, filterability index with 0,2 % water, filterability index	IF1	NF E 48-690	Pass					
	IF2	NF E 48-691	Pass					

This typical data is given for information only

HEALTH, SAFETY AND ENVIRONMENT

Elimination must be carried out to conform to the rules set for the disposal of used oils.

Must be stored away from bad weather.

Should you need further details, our Technical Department remains at your disposal.