



Eni Acer

Circular lubrication oils and hydraulic fluids based on paraffinic base oils with agents for the improvement of the corrosion protection and ageing resistance.

Characteristics (typical figures):

Eni Acer	Einheit	MV 10	22	32	46	68	100	150	220	320
Kin. Viscosity at 0 °C	mm ² /s	62	165	280	495	850	1000	7800	15000	28000
at 40 °C	mm ² /s	10,2	22	32	46	68	100	150	220	320
at 50 °C	mm ² /s	7,4	15,7	20,3	29,4	39,6	61	84	122	160
at 100 °C	mm ² /s	2,7	4,2	5,3	6,8	8,6	11,4	14,4	19,6	24,6
Viscosity index		103	100	106	105	101	97	97	96	96
Density at 15°C	kg/m ³	851	868	874	879	885	890	895	899	905
Flashpoint o. C.	°C	165	210	208	207	203	230	243	272	281
Pourpoint	°C	-30	-30	-21	-21	-18	-18	-15	-9	-6
Designaiton	DIN 51517 T.2	CL	CL	CL	CL	CL	CL	CL	CL	CL
ISO-VG-grade		10	22	32	46	68	100	150	220	320

Properties and Performance:

Eni Acer oils excel due to a favorable natural viscosity temperature behavior, good cold flow properties, high ageing resistance and temperature load capacity, improved corrosion protection, neutrality against all metals, good separating power of water and air as well as low foam tendency.

The compatibility with common sealing materials and internal varnishes is ensured.

Applications:

Eni Acer oils have a high degree of purity and are suitable as circulating oils for bearings and gears on machine tools, in compressors, water turbines, vacuum pumps, paper machines and fans. Can also be used as hydraulic oil and compressor oil according to the approvals.

Eni Acer MV 10 is especially recommended for spindle lubrication at machine tools. Additionally, they can be used for hydraulic systems, hydraulic control units and systems as far as there are no requirements for increased pressure resistance (EP additives) or for cleaning efficiency (HD components). The thinner types are mainly used in fast running bearings and transmissions. The higher viscosities are suitable for heavy power units with increased temperatures and low numbers of revolution as well as for thermal high loaded lubricating points at cylindrical rotary kiln and high-pressure compressors.



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Additional physical-technical data:

Eni Acer	Einheit	MV 10	22	32	46	68	100	150	220	320	
Neutral. number	mgKOH/g	0,09	0,05	0,04	0,08	0,08	0,06	0,04	0,04	0,08	
Alterungsverh. Ageing behaviour Increase of the NN after 1000 hrs.	mgKOH/g	0,45	1,1	1,9	0,4	1,9	1,5	2,0	1,5	1,0	
Corrosion effect on copper	grade	1 A - 100							2 B - 120		
Corr. protection prop. against steel	grade	0 - A									
Air release properties at 50°C	min.	1	3	4	4	10	11	24	--	--	
Demulsifying power at 54°C	min.	5	5	15	20	30	--	--	--	--	
Demulsifying power at 82°C	min.	--	--	--	--	--	10	5	10	20	
Foaming Properties (procedureB)	S1 S2 S3	ml ml ml	40/0 10/0 30/0	50/0 20/0 40/0	50/0 30/0 40/0	40/0 30/0 20/0	20/0 20/0 20/0	20/0 10/0 40/0	Sp/0 Sp/0 Sp/0	Sp/0 10/0 Sp/0	Sp/0 10/0 Sp/0
Designation	DIN 51524 T.1	HL 10	HL 22	HL 32	HL 46	HL 68	HL 100	--	--	--	
Designation	DIN 51 506	--	VBL 22	VCL 32	VCL 46	VCL 68	VCL 100	VCL 150	VCL 220	VCL 320	

Specifications:

Eni Acer oils meet the requirements of the following specifications:

ISO 6743/2 FC (MV 10)
ISO 11158 HL (ISO VG 22, 32, 46, 68, 100, 150)
DIN 51 517 T.2 CL (ISO VG 32, 46, 68, 100, 150, 220)
DIN 51524-1 HL (ISO VG 22, 32, 46, 68, 100, 150)
DIN 51 506 VCL (ISO VG 32, 46, 68, 100, 150)
DIN 51 506 VBL (ISO VG 220, 320)
ISO 6374/3 DAB (ISO VG 32, 46, 68, 100, 150)
ISO 12925-1 CKB (ISO VG 32, 46, 68, 100, 150)
AFNOR NF E 48600 HL (ISO VG 22, 32, 46, 68, 100, 150)
CETOP RP 91 H HL (ISO VG 22, 32, 46, 68, 100, 150)
ANSI/AGMA 9005-E02 (ISO VG 32, 46, 100, 150, 220, 320)
Morgan Morgoil Revision 1.1-2005 (ISO VG 22, 32, 46, 68, 100, 150, 220, 320)
BS 4231 HSC (ISO VG 22, 32, 46, 68, 100, 150)
J.P. Sauer&Sohn (ISO VG 100)