PRODUCT DATA SHEET

Agip 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):

Agip ACER	Einheit	MV 10	22	32	46	68	100	150	220	320
Kin. Viscosity at 0 °C	mm²/s	62	165	280	495	850	1000	7800	15000	28000
at 40 °C	mm²/s	10,2	21	30	44	64	100	141	209	327
at 50 °C	mm²/s	7,4	15,7	20,3	29,4	39,6	61	84	122	160
at 100 °C	mm²/s	2,7	4,2	5,3	6,8	8,6	11,4	14,4	19,6	24,6
Viscosity index		102	100	106	100	95	95	95	95	95
Density at 15°C	kg/m³	853	861	870	873	890	900	900	900	896
Flashpoint o. C.	°C	158	202	214	226	210	225	235	245	280
Pourpoint	°C	-27	-21	-18	-18	-18	-15	-15	-9	-12
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:

Agip ACER oils excel due to a favourable natural viscosity temperature behaviour, 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:

Agip ACER oils have a high purity level and are suitable as circular lubrication oils for bearings and transmissions of machine tools, in compressors, water turbines, paper machines and fans.

Agip 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:

Agip ACER	Unit	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	
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											
Air release properties at 50°C	min.	1		3	4	4	10	11	24	--	--	
Demulsifying power at 54°C at 82°C	min. min.	5 --		5 --	15 --	20 --	30 --	-- 10	-- 5	-- 10	-- 20	
Foaming S1 Properties S2 (procedure B) 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	VBL 320	

Specifications:

DIN 51 517 T. 2 (CL)
DIN 51 524 T. 1 (HL)
DIN 51 506 (VBL/VCL)
ISO-L-FC (Agip ACER MV 10)

AFNOR NF E 48-600, CAT. HL
CETOP RP 91 H, CAT HL
BS 4231 PAS 3 CAT. HSC
AGMA 250.04
MORGOIL (Morgoil lubricant Specification) Revision 3.0 April 15th 1999 (for ISO VG 32-460)
CINCINNATI P-38,P-54,P-55,P-57,P-62
AFNOR NF E 48-600 CAT. HL
ASLE H-150, H-215, H-315
G.M.T. B 9210
SULZER ZBS 2201