



ALL. 02-P.09 di 16 - GRASSI.

ANN. 02-P.09 di 16 - GREASES.

STANDARD No. 0.000.001

Rev. 14 Pag. 43 Di/Of 50

Sostituisce
Replaces**DANIELI**A02.2b - Tipo DIN 51502 - KP1K-20 (Tipo 2).
Grassi multifunzionali additivati EP.A02.2b - Type DIN 51502 - KP1K-20 (Type 2).
Multipurpose greases EP additives.

Tab. A02.2b/1

Design. DIN 51502	Design. ISO 6743-9	Worked Penetration DIN ISO 2137		Consistence NLGI DIN 51818	DANIELI CODE
		Min	Max		
	L-XBCEB 1	310	340	1	Type 2 0.340329.A

Ex. des.: 0.340329.A - Grease KP1K-20
DIN 51825
T.2 N 0.000.001
Cert. EN10204 - 2.2Preferibili ma non obbligatori.
Preferred but not mandatory.**Caratteristiche**Elevata stabilità meccanica.
Buona resistenza contro: Ossidazione, corrosione, umidità, acqua.
Temperatura di impiego: -20°+ +120°C.
Additivati EP, pompabile.
Conformi DIN 51825.**Characteristics**High mechanical stability.
Good resistance against: Oxidation, corrosion, humidity and water.
Operating temperature: -20°+ +120°C.
Contain EP additives; can be pumped.
Meet DIN 51825.

Tab. A02.2b/2

Physical characteristics			
Characteristics	STD ref.	U.M.	Value
Thickener	Lithium-12-hydroxystearate		
Dropping Point	ISO 2178 ASTM D 2265	°C	≥ 180
Flow pressure @ -20°C	DIN 51805	mbar	≤ 1400
Oxidation stability	ASTM D 942.1P142	bar	Max 0,5
Oil Viscosity @ 40°C (kinematic)	DIN 51562 ASTM D 445	cSt	≥ 150
Oil Viscosity @ 100°C (kinom.)	DIN 51562 ASTM D 445	cSt	-
Water washout @ 79°C 1h	ASTM D 1264	% wt	8
Worked Penetration @ 25°C	ISO 2137	mm/10	310+340
	ASTM D 217		
Change in worked penetration after 100000 DS	ISO 2137 chap.1		< 30
Grease +20% dest. water change in worked penetration after 100000 DS	ISO 2137		≤ 50
	ASTM D 217		
Corrosion tests			
Characteristics	STD ref.	U.M.	Value
Corrosion-prevention	ASTM D 130	Rating	1b
SKF Emoor corrosion test	DIN 51802	Level	0 and 0
Wear characteristics			
Characteristics	STD ref.	U.M.	Value
4-Ball wear test 40 kg 1200 g/1'	ASTM D 2266	wear mm	0,6
4-Ball EP test (weld point)	ASTM D 2596	kg	≥ 250
Timken EP test (OK load)	ASTM D 2509	pounds	≥ 40
FZG gear test	DIN 51354-1/2	Pass stage	-
Mech.-dyn. test FAG FE 9, A/1500/6000 F ₅₀ over 100h	DIN 51821-2	°C	120

Tab. A02.2b/3

BRANDS COMPARISON	
SOCIETY	MARK
AGIP	GR MU/EP1
AXEL CHRISTIERN.	ACINOL 151 EP
BECHEM	HIGH-LUB L 474-1
BP	ENERGREASE LS-EP 1
BROOKS	LITHALENE 900-1
BRUGAROLAS	G AGUILA AUREA 1
CASTROL	SPHEEROL EPL 1
CHEVRON	DURA-LITH GREASE EP 1 (2)
ESSO	BEACON EP 1
FUCHS	RENOLIT EP 1
KLÜBER	MICROLUBE GL 261
MOBIL	MOBILUX EP 1
Q8	REMBRANDT EP 1
ROLOIL	LITEX EP 1
SHELL	ALVANIA EP (LF) 1 ALVANIA WR 1
TEXACO	MULTIFAK EP1
TOTAL	MULTIS EP 1 CERAN HV
TRIBOL	TRIBOL 4020/220-1
VISCOL	SIGNAL GREN AW EP 1

(1): No more applicable.

(2): Only for USA market.

