

AUTOMOTIVE AND INDUSTRIAL LUBRICATING GREASE

INA LIS

General Description - Applications

INA LIS are multipurpose lithium 12-hydroxistearate lubricating greases resistant to water with oxidation inhibitor. Modern technology resulting in high mechanical stability.

INA LIS 1 is soft consistency lithium multipurpose grease for lubrication of plain and rolling bearings operating at low ambient temperatures. Depending on conditions the operating temperature ranges from -30 do 110 °C.

INA LIS 2 is medium soft consistency lithium multipurpose grease for lubrication of various plain and rolling bearings, slides, joints and other machine elements. Depending on conditions the operating temperature ranges from -30 do 120 °C.

INA LIS 3 is medium hard consistency lithium multipurpose grease for lubrication of all kinds of plain and rolling bearings. The operating temperature ranges from -20 to 130 °C.

Performance Level - Specifications

INA LIS 1

 ISO L-XCCHA 1
 DIN 51825 K 1 K -30
 INA N 22-220 TIP 1

INA LIS 2

 ISO L-XCCHA 2
 DIN 51825 K 2 K -30
 INA N 22-220 TIP 1

INA LIS 3

 ISO L-XBDHA 3
 DIN 51825 K 3 N -20
 INA N 22-220 TIP 1

Properties	INA LIS			Method
	1	2	3	
NLGI number	1	2	3	
Kinematic Viscosity of Base Oil, mm ² /s				
- at 40 °C	80	115	130	ISO 3104
- at 100 °C	9	12	13	
Appearance and Colour	yellow - brown, homogeneous			visual
Dropping Point, °C	190	195	200	ISO 2176
Worked penetration, 60 strokes at 25 °C, 0,1 mm	325	275	235	ISO 2137
Corrosion (Cu, 100 °C, 3 h)	1 a			ISO 2160
Free alkali (as NaOH), mass. %	0,05			ASTM D 128
Mechanical stability, penetration change after 10 000 strokes, %	6	8	10	ISO 2137
Water washout (79 °C, 1 h), mass. %	8	3,5	2	ISO 11009
Wheel Bearing Leakage Tendencies (113 °C, 6 h) mass. %	-	1	0,5	ASTM D 1263
Oxidation stability (99 °C, 100 h) - pressure drop, kPa	20			ASTM D 942
Oil separation (40 °C, 168 h) mass. %	7	4	2	IP 121
Rust preventing properties, SKF Emcor	1	0/1	0/1	DIN 51802

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.