

Product Information:

K43EP

MULTI-PURPOSE GREASE



Description:

K43EP is a Lithium thickened lubricating grease based on mineral oil with corrosion inhibitors.

Applications

Railway axle bearing grease

Lubricating grease offers good mechanical stability and corrosion protection, making it suitable for bearing lubrication even in wet environments. K43EP is a high quality NLGI 3 Lithium grease suitable for a wide range of plain and rolling bearings used within given temperature limits.

K43EP has been produced and supplied to the market place for over 30 years in numerous countries worldwide. K43EP is currently in British mainline applications as follows:

- Carriage wheel sets using Commonwealth, B4 and B5 passenger bogies.
- Class 37/47/50/56 locomotive axle bearings and suspension tubes on freight and passenger duties.

K43EP is also used extensively on Heritage Railway lines where a grease of this type is specified.

Performance Levels

After extensive trials, K43EP meets or exceeds the requirements of British Railways Specification Number 673 and meets the current lubrication requirements of railway vehicle axle boxes fitted with rolling element anti-friction bearings.

EN12081 Compliance – Pending completion of trials



Physical Characteristics

Thickener		Lithium
Base fluid		Mineral oil
Texture	Visual	Smooth
Colour	Visual	Brown
NLGI Grade	ASTM D 217 mod	3
Dropping point	ASTM D2265	193°C
Base oil viscosity at 40°C	ASTM D445	150 cst
Penetration 60 strokes	ASTM D217	246
Penetration 10,000 strokes	ASTM D217	266 Δ20
Penetration 100,000 strokes	ASTM D217	276 Δ35
4-ball weld load	ASTM D2596	315 Kgs
Timken OK Load	ASTM D-2509	50 lbs
Water wash out at 38°C	ISO 11009	3
Emcor distilled water test	ISO 11007	0 - 0
Oil Separation		
42 hours @ 40°C	IP121	0.7%
168 hours @ 40°C		1.4%
Copper Corrosion		
48 hours @ Ambient	D4048	Class 1a
Oxidation Stability – Pressure drop	ASTM D942	4 psi
Temperature range		-20°C to +140°C

Figures based on average production values

Part No.S: KEP075, KEP050 KEP180, KEP400, KEPO003

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