Petroleum products

Lithium grease EP 3

NLGI consistency and ASTM worked penetration

EP 3



Material illustration

Technical characteristics

Lithium EP grease, NLGI 3. Extreme-pressure additives serve heavily loaded contacts. The NLGI number describes consistency.

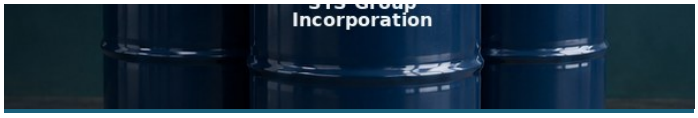
Property	Reference value	Method or source
Consistency grade	**NLGI 3**	NLGI
Worked penetration at 25 °C	**220–250 × 0.1 mm**	ASTM D217
Sample working	**60 double strokes**	ASTM D217

NLGI 3 corresponds to worked penetration of 220–250 in 0.1 mm units at 25 °C after 60 double strokes (ASTM D217). Base oil viscosity, water resistance and bearing operating temperature also affect selection.



Applications

For bearings and joints requiring EP grease. In shock-loaded service, compare extreme-pressure data such as four-ball weld load.



Packaging and receipt

Cartridges suit manual grease guns, while pails and drums can feed pumps. Match consistency to the pump and line length, particularly in cold conditions.

For acceptance, check the agreed specification and the certificate of analysis (COA) for the delivered lot.