

Technical data

ZN50

Tool Joint & Drill Collar Compound

Description

MOLYSLIP ZN50 is a water resistant, high pressure assembly and thread compound based on highly refined, low sulphur content mineral oil thickened with a soap matrix and formulated to incorporate 50% metallic zinc. The product is specifically designed to prevent 'cold welding' of shoulder/collar joints and seizure of threaded connections on oilfield equipment such as Drill pipe/collars, Saver-sub to top drive connections, X-overs, production tooling, Kelly ball joint shoulder connections etc. The product is formulated to meet the requirements of *API RP 7G and has been independently tested and proven to exceed the requirements of **API RP 5A3 / ISO 137678:2010.

The excellent lubricating properties of MOLYSLIP ZN50 reduces friction during assembly preventing galling, 'pick-up', seizure and wear and facilitates easier breakout for routine maintenance. The inclusion of anti-corrosion and antioxidant additives make the product particularly suitable for use under the most aggressive conditions in corrosive wet/humid, dirty or chemical environments where a high degree of water washout resistance is required, and effective over a wide temperature range.

**API RP 7G – "Recommended Practice for Drill Stem Design and Operating Limits".*

***API RP 5A3/ISO13678:2010 – "Petroleum and natural gas industries-evaluation and testing of thread compounds for use with casing, tubing, line pipe and drill stem elements".*

Features and benefits

- Low sulphur content
- Brushable at low temperature (down to -18°C)
- Excellent load carrying and anti-wear properties
- Allows consistent joint make up
- Highly effective protection against corrosion
- Outstanding resistance to water washout
- Can be applied to cold, damp equipment

Instructions for use

MOLYSLIP ZN50 should be applied manually by brush to clean, degreased and dry (where possible) tool joint threads and shoulders. For best results apply to both mating surfaces.

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Company registration number: 2263118; Company registered in England VAT registration number GB108244927

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Storage

MOLYSLIP ZN50 should be stored in original, unopened packaging, out of direct sunlight at temperatures between 5°C and 35°C. The most up to date shelf life information for Molyslip products can be found on the certificate of analysis issued at the time of manufacture.

Packaging and product code

Code	Pack
M600120	20 kg pail
M600150	5kg pail

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Property	Test method	Result
Appearance	-	Smooth grey paste
Worked penetration	IP50	290
NLGI classification	-	1 - 2
Drop point	IP132	>140°C
SG (kg/l)	-	1.4
Corrosion resistance (EMCOR)	IP220	0:0
Base oil viscosity	IP71	150cSt
Solids content	-	>50%
4-ball weld load	IP239	500kg
Friction factor*	API Mod	1.0
Service rating	-	-20°C to +140°C

Note: These values are typical only and do not constitute a specification

*The Friction Factor is a 'relative' number, many operational variables such as pipe size, thread type / geometry, drilling muds and extraneous contamination, etc. affect the friction factor. In all instances experience and prior application knowledge should be used to adjust make-up torque accordingly. If in doubt, contact the drill pipe manufacturer for torque and friction- related specifications.

Limited warranty information

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective and fully satisfactory for the intended end use. We accept no liability for any loss and/or damage arising from a failure to store our products in accordance with the information contained in this technical sheet.

Metalube Group's sole warranty is that our products will meet their quality control specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

To the fullest extent permitted by applicable law, Metalube Group specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Metalube Group disclaims liability for any incidental or consequential damages.

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