

Nytorq

Coating for Adjustment of Thread Friction and for Thread Forming Screws

Description

Nytorq is a film-forming surface coating based on wax. It reduces friction at the assembly process. Furthermore Nytorq lowers the thread-forming values during assembly, prevents stick slip and galling and enables higher clamp loads with equal tightening torque. The dried film is tack-free, non sticky and can be used in all kind of assembly procedures, particularly for series production.

Application

Nytorq can be applied on all types of threads and be used for thread-forming screws. Nytorq can be applied partially or on the whole screw by dipping method. Depending on the requirements for the application Nytorq is used in a dilution with a maximum of 5 parts water.

Properties

- Defined thread friction at low deviation.
- Avoids stick slip and galling.
- Reduces thread-forming values.
- Temporary corrosion protection.
- Constant assembly properties.
- Partial or dip and spin coating possible.
- Meets VDA coefficient of friction requirements.
- Can be applied to metallic and non metallic surfaces.
- Non hazardous.

Technical data

Chemical Type	Wax
Color	transparent / yellow with UV-marker
Melting point	+125°C (255°F)
Maximum operation temperature in air	-60°C - +70°C (-75°F - +160°F)
Thread friction value* μ_{Thread}	0,06 – 0,15 depending on dilution and thread surface
Thread-forming value (DIN EN ISO 7085)**	< 20 Nm

*All values apply to screws M10 ISO 4017-8.8 plain finish and nuts M10 ISO 4032-10 plain finish.

**Thread-forming value applies to screws M10 zinc plated and blue passivated, nuts M10 DIN 928, all other thread sizes comply with DIN EN ISO 7085.

Shelf life 4 years at max. +30°C (+86°F) and max. 65% relative humidity.

Storage and transport conditions see omniTECHNIK packaging information.

Releases

- Daimler Chrysler MS 9775
- Ford WSS-M21P27 A4
- General Motors 9986167

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Note: As we do not know the specimen, dimensions, materials, combinations, surface conditions etc. of the threads in question, it is absolutely essential to run quality tests prior to general use to make sure about the required performance under field conditions. Our guarantee is confined to supplying precote in proper quality. In view of the fact that processing of precote by the coating partner and the application of precote coated parts are beyond our knowledge and influence we cannot guarantee for the quality of parts coated with precote and assemblies made thereof. We accept liability for the

fitness of our products for particular purposes and liability for particular qualities of our products only in the event that we have accepted such liability in writing in the individual case. In any event any justified warranty claims shall be limited to the delivery of replacement goods which are free from defect or, in the event that such subsequent improvement fails, to reimbursement of the purchase price. Any and all further claims, in particular but without limitation any liability for consequential damage, shall be excluded.