



**HO** WATERBASED **3-6 µm** 

FUNCTIONALITIES

#### Lubrication

PLUS® XL allows to obtain a stable and controlled friction coefficient in the range of 0.06–0.09, which is the lowest of our portfolio. It provides outstanding tribological performances and stability regarding multi-tightening with various counterparts materials (cataphoretic paint, aluminum alloys, cast iron and steel) while avoiding stick-slip problems. This topcoat is also perfectly adapted to torque + angle tightenings.

0.06-0.09

COEFFICIENT OF FRICTION (ISO 16047)

Measured on GEOMET® 321 or GEOMET® 720 on HM10.

# **Corrosion protection**

Combined with our zinc flake basecoats, PLUS® XL reacts and creates a barrier effect that improves both the corrosion resistance of the system and the contact corrosion with aluminum and other materials.

#### **Chemical resistance**

Resistance to industrial solvents and automotive fluids.

# **Color tracing**

PLUS® XL can be colored for part visual identification and differentiation.

# No hydrogen embrittlement

Implemented via non-electrolytic application processes. This avoids the hydrogen embrittlement phenomenon that causes cracking of metals.

APPLICATION

#### **Processes**

PLUS® XL is applied via bulk dip/spin, rack dip/spin, spray or electrostatic spray. This variety of processes allows to coat all types of parts, even those requiring partial coating, or with recessed and hollow surfaces. Moreover, they are non-electrolytic and thus avoid the phenomenon of hydrogen embrittlement which causes cracking of metals.



RACK DIP/SPIN





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TECHNOLOGY

### Waterborne silicate

PLUS® XL is a technology composed of lubricants in a silicate resin. It has been developed to comply with the highest industrial requirements and regulations regarding environment, health and safety. It is water-based and nonylphenol-free.

Compliant with

REACh - Registration, Evaluation, Authorization and restriction of Chemicals

2011/65/EU and (EU) 2015/863 - Directive of the European Parliament on the restriction of the use of certain hazardous substances in electrical and electronic equipment

EN 13858- Corrosion protection of metals - Non-electrolytically applied zinc flake coatings on iron or steel components

EN ISO 10683- Fasteners - Non-electrolytically applied zinc flake coating systems

PDS/PLUS® XL/3/1/2023 - NOF METAL COATINGS is a registered trademark of NOF CORPORATION

Evolution driven by people.

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