

New-generation
Self-tapping screw

TAPTITE 2000[®]

Lubricant for stable
friction coefficient

FRIX[™] 009

Epoch- making

"High Tensile Thread Rolling Bolt"

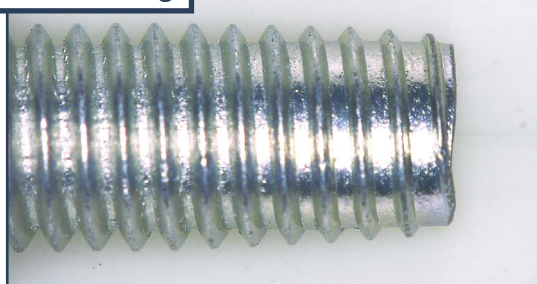
- ✓ Self-tapping by High-Tensile bolt is now available. *Mechanical property class 10.9
- ✓ High axial tension performance equivalent to bolt fastening.
- ✓ Reliable fastening thanks to excellent relationship of Torque Tension.
- ✓ Contribution for cost saving by self-tapping.

Other option is available for high tensile strength steel 100 (980MPa).

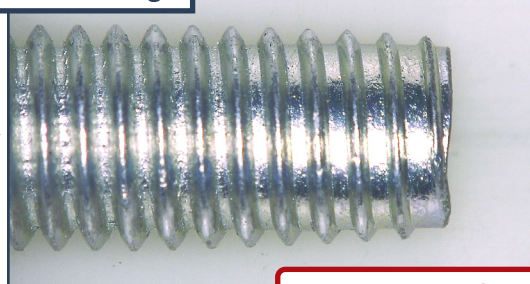
Fastening test on aluminium mating part

【 TAPTITE 2000® (Property class 10.9) + FRIX 009 】

Before using



After using



[Mating part] ADC12

No damage of thread.

Comparative investigation of axial tension performance

【 To the aluminum mating part by TAPTITE 2000® (φ8) 】

Screw

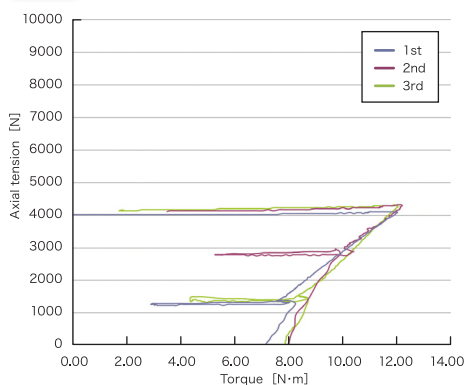
- 1 TAPTITE 2000 (φ8x30 · Hexagon head with flange) ※Plating : Zinc + Trivalent chromate
- 2 TAPTITE 2000 (φ8x30 · Hexagon head with flange) ※Plating : Zinc + Trivalent chromate + FRIX009
- 3 Machine screw (φ8x30 · Hexagon head) ※Plating : Zinc + Trivalent chromate

Material of object SPCC / Thickness t=2.5 Axial tension sensor / Thickness t=12.0 Spacer / Thickness t=5.0

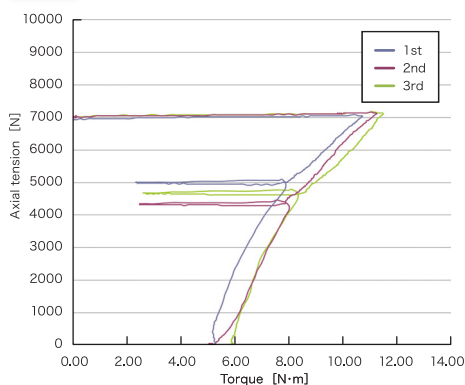
Mating part ADC12

Tightening torque Initial torque 8.00 N·m (Rotation speed 300rpm) Tightening set torque 12.00 N·m (Rotation speed 50rpm)

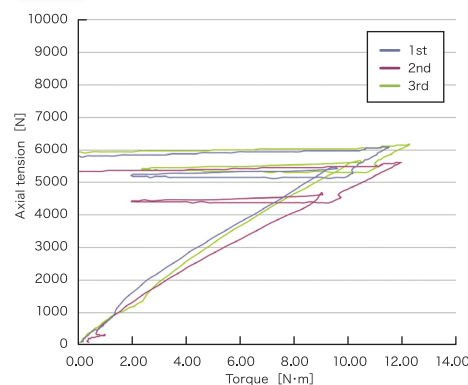
1 TAPTITE 2000 Zinc + Trivalent chromate (Hole diameter φ7.30)



2 TAPTITE 2000 Zinc + Trivalent chromate + FRIX009 (Hole diameter φ7.30)



3 Machine screw Zinc + Trivalent chromate (M8 Tapped nut member)



Axial tension test result

	1st	2nd	3rd	Max. Value	Ave. Value	Min. Value
1 TAPTITE 2000 Zinc + Trivalent chromate	4110	4320	4320	4320	4250	4110
2 TAPTITE 2000 Zinc + Trivalent chromate + FRIX009	7080	7170	7170	7170	7140	7080
3 Machine screw Zinc + Trivalent chromate	6090	5610	6180	6180	5960	5610

NITTOSEIKO CO.,LTD.

Fastener Division
Global Sales Section

Website : <https://www.nittoseiko.co.jp/en.html>



TAPTITE 2000® is registered trademark of CONTI FASTENERS AG.(CH),
and NITTOSEIKO is the regular licensee which authorized to use this trademark.
FRIX is trademark for NITTOSEIKO CO., LTD.