NITTOSEIKO

NYLON COATED SELF-LOCKING SCREW

SOFTLOK

Outline of SOFTLOK

SOFTLOK is a Nylon coated self-locking screw. Elasticity of nylon heightens friction between screw and nut and perform extremely high loose proof effect.

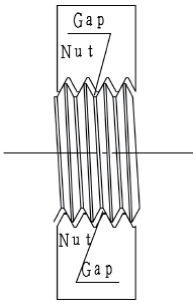
Special features

- It is hard to loose by temperature variation, vibration and impact shock.
- Loose-proof effect can be carried on even in repeated use.
- It also has sealing effect.
- All-round coating is effective for anti-galling at installation.

【Character of coating】

★ Max. allowable temp.	~130℃
★ Low temp. stability	◎
★ Wear resistance	◎
★ Crashworthy	◎
★ Adhesion	◎
★ Alkaliproof	◎
★ Oil resistance	◎

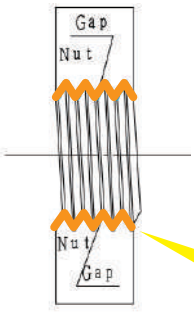
Problem of Ordinary screw



~ Screw loosening ~

Gap between male thread female thread will be a cause of friction depressing when they are given external pressure like vibration, shock etc. This depressing leads screw loosening.

Solution by SOFTLOK



~ Strong locking effect ~

Nylon coating on thread fills in the gap and prevent screw loosening.

Application

- Car navigation system
- Handheld terminal
- Mobile phone
- Digital video camera

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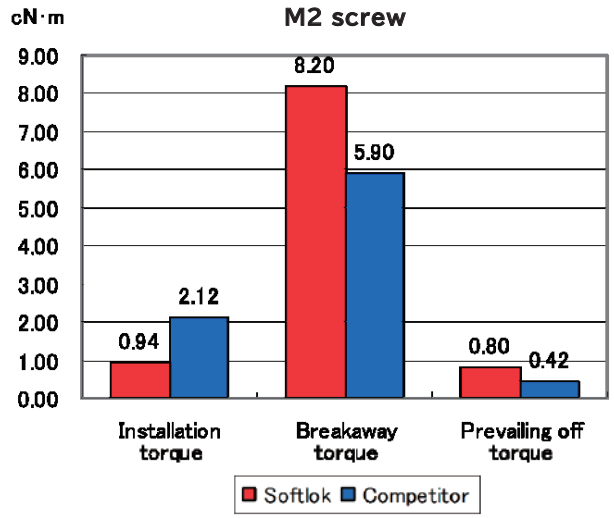
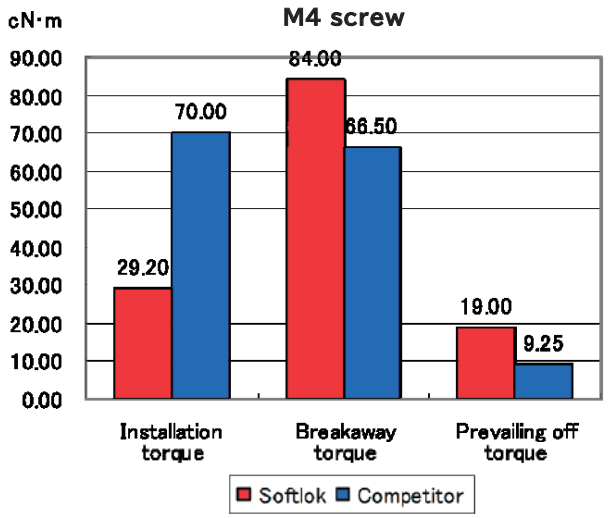
Loose-proof performance

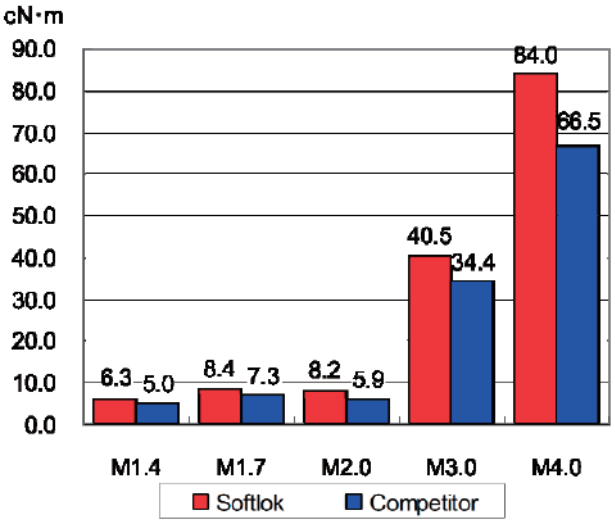
<Comparison with Competing product>
Valuation method : Heat Aging
(Tighten — Aging [-25℃(1H), 60℃(1H), room temp.(1H)] — Remove)

1. General Torque performance

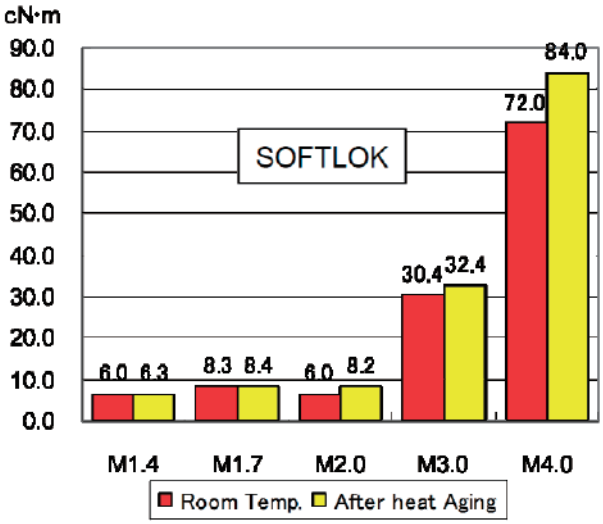




2. Breakaway Torque after heat aging



3. Comparison of breakaway Torque



● Test condition

1. Work piece : SS41 (Tapped)
2. Screws
   A) Nittoseiko SOFTLOK
   B) Competing product : Spray painted nylon
3. Method
   Tighten screws by indicated tightening torque at room temperature and give heat shock. When remove them after that, measured prevailing torque and residual torque.

*Above mentioned data is just test result. and not guaranteed figure.

NITTOSEIKO CO.,LTD.

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Global Sales Section
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[Website] [Inquiry Form]

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