

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

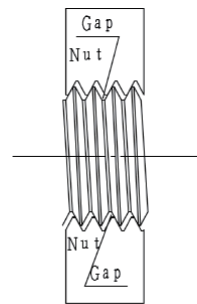
- It is hard to loose by temperature variation, vibration and impact shock.
- Loose-proof effect can be carried on even in repeated use.
- It also has sealing effect.
- All-round coating is effective for anti-galling at installation.

[Character of coating]

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

Problem of Ordinary screw

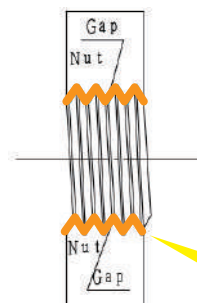
~ Screw loosening ~



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

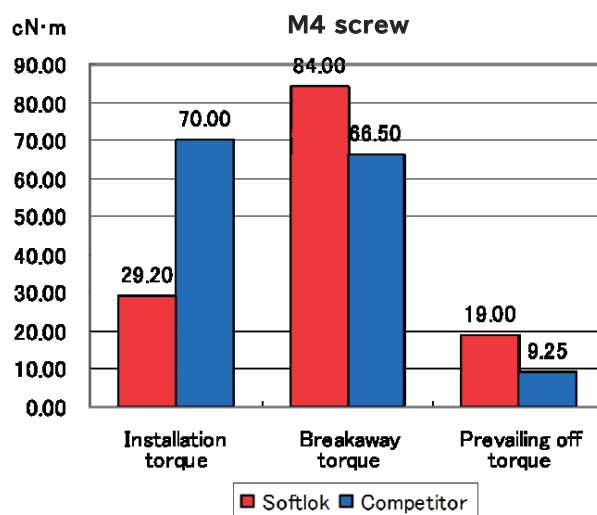
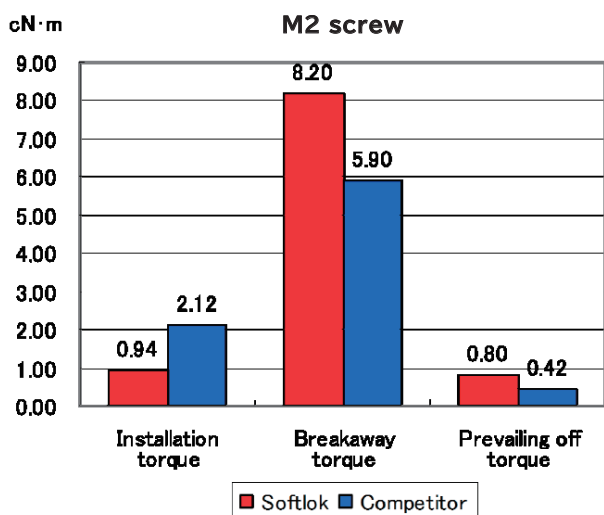
SOFTLOK

Loose-proof performance

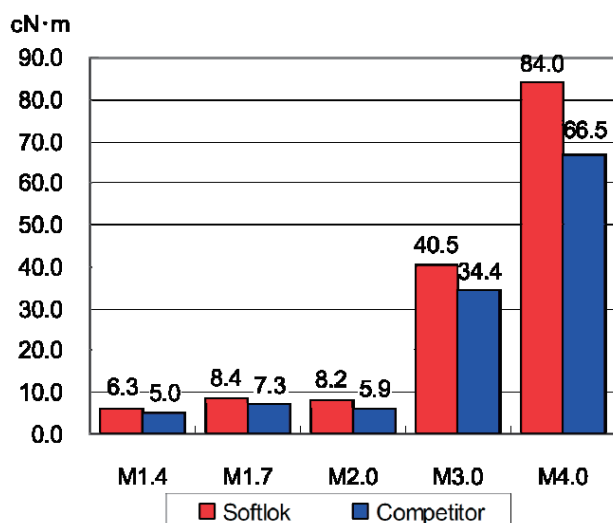
<Comparison with Competing product>

Valuation method : Heat Aging
(Tighten — Aging [-25°C(1H), 60°C(1H),
room temp.(1H)] — Remove)

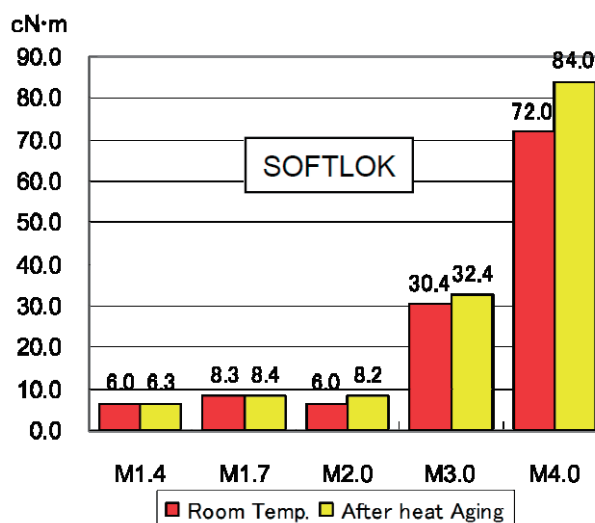
1. General Torque performance



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.

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