

Self-locking screw at low cost

APSLOK[®]

- ☑ Realize big cost reduction by quit using the bond.
- ☑ Stable anti-loosening performance by sticking to flank face on internal thread.
- ☑ Improve anti-loosening performance by prevailing torque.

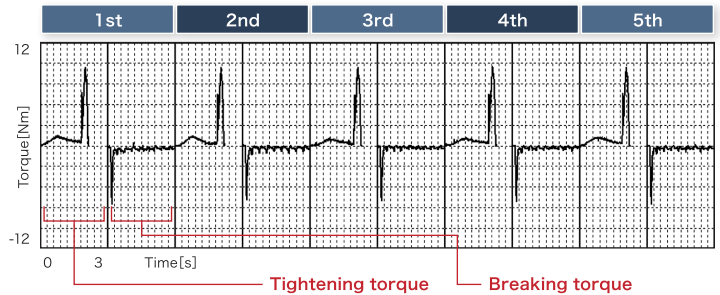
TECHNICAL REPORT

01

Breaking torque test

- **Fastening condition**
 - Material of mating part : Nut(M6) Tapped hole Thickness $t=4.95$
 - Object : SPCC Flat washer Washer thickness $t=1.6$ 5pcs
- **Tightening torque**
 - Initial torque : $5.0N \cdot m$ (Rotation speed 300rpm) ● Tightening set torque : $9.0N \cdot m$ (Rotation speed 60rpm)
- **Screw**
 - APSLOK ($\phi 6 \times 20$ Hexagon head with flange) ※Plating : Zinc+Trivalent chromate

	Data (N·m)				
	1st	2nd	3rd	4th	5th
Tightening torque	9.145	9.110	9.122	9.227	9.157
Breaking torque	6.788	6.343	6.402	6.472	6.812



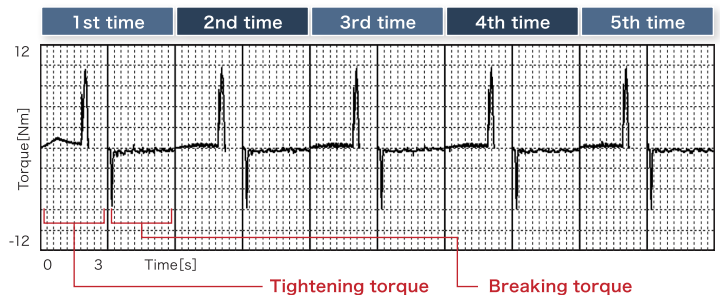
TECHNICAL REPORT

02

Repeated breaking torque test

- **Fastening condition**
 - Material of mating part : Nut(M6) Tapped hole Thickness $t=4.95$
 - Object : SPCC Flat washer Washer thickness $t=1.6$ 5pcs
- **Tightening torque**
 - Initial torque : $5.0N \cdot m$ (Rotation speed 300rpm) ● Tightening set torque : $9.0N \cdot m$ (Rotation speed 60rpm)
- **Screw**
 - APSLOK ($\phi 6 \times 20$ Hexagon head with flange) ※Plating : Zinc+Trivalent chromate

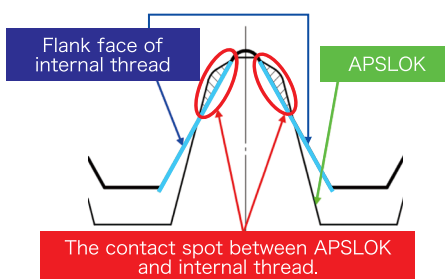
	Data (N·m)				
	1st time	2nd time	3rd time	4th time	5th time
Tightening torque	9.145	9.298	9.239	9.321	9.227
Breaking torque	6.788	7.058	7.105	7.152	7.199
Prevailing torque when loosening	1.055	0.809	0.598	0.750	0.551



TECHNICAL REPORT

03

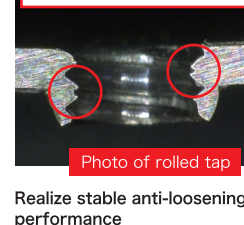
Effect by sticking to flank face.



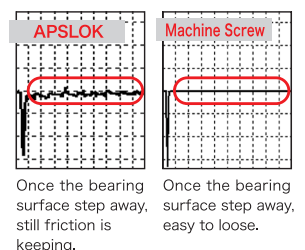
1. Good performance against anti-loosening



2. Insusceptible by poor accuracy of internal thread.



3. Keeping loosening torque.



NITTOSEIKO CO.,LTD.

Fastener Division Global Sales Section

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



[Website]



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