



First of its kind !

Shows the ability of
anti loosening under hard vibration
and large temperature change.

Self-tapping Screw
for Plastic

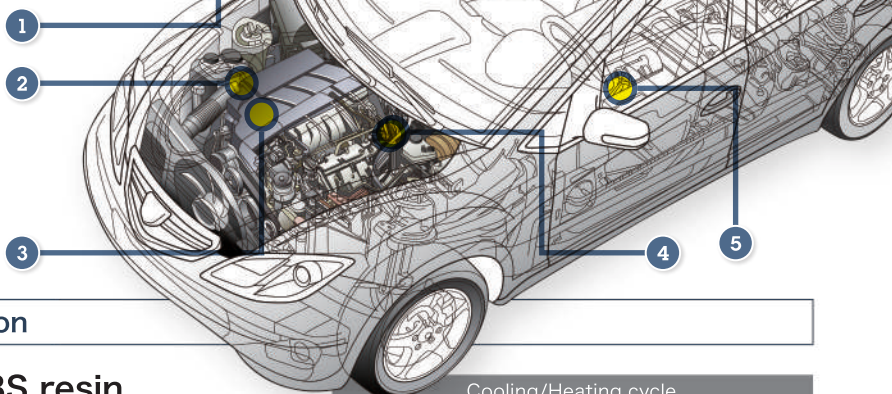
GIZATITE®

- ✓ Sharp thread angle relieves internal stress to prevents cracking of boss.
- ✓ It can be manufactured from aluminium for weight saving.
- ✓ Fastening Solution, Quality starts from the first turn.

TECHNICAL REPORT 01

Major application for automotive

- 1 Door mirror
- 2 Air flow sensor
- 3 Intake manifold
- 4 Water pump
- 5 Window regulator



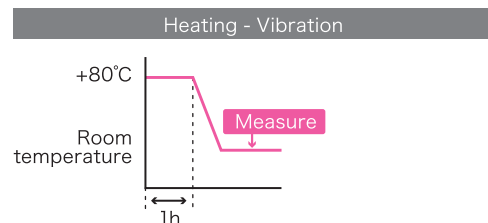
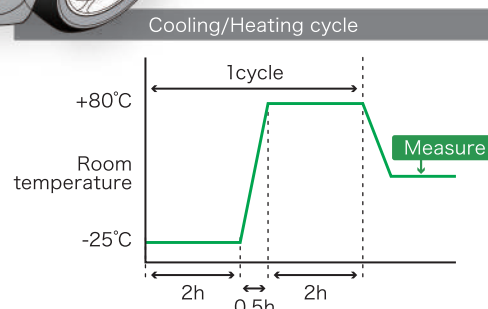
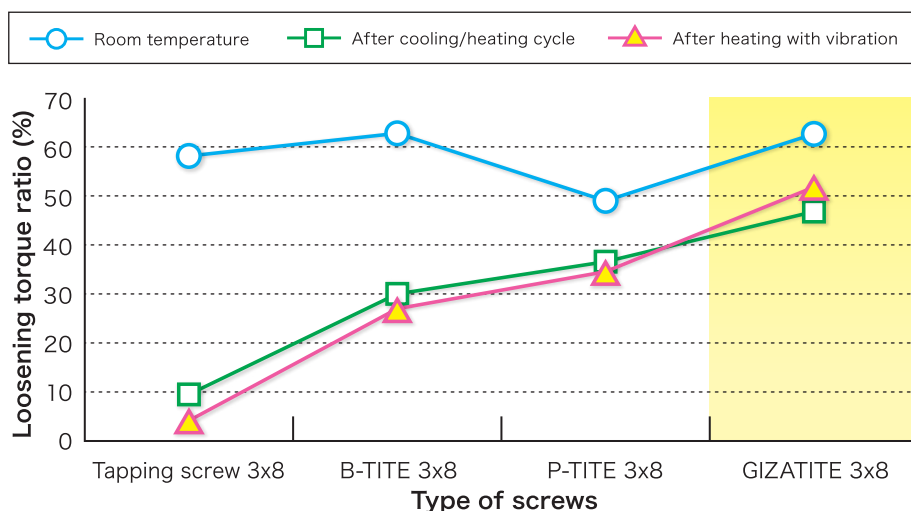
TECHNICAL REPORT 02

Performance comparison

Loosening torque comparison to ABS resin

Loosening torque ratio : Breaking torque / Tightening torque

※Tightening torque=0.8N·m



[Vibration condition]
Put a load only for one side of the test piece
Time : 1 hour Amplitude : 2mm
Frequency : 33.3Hz Vibration acceleration : 4.4G

TECHNICAL REPORT 03

Loosening torque performance after repetition use (Room temperature)

■ Screw : GTP3×12 Zinc + Trivalent Chromate ■ Mating part : PBT+GF55% Hole diameter 2.60
■ Object : SPCC t=3.6

[N · m]

	Number of repetitions										Average value
	1st time	2nd time	3rd time	4th time	5th time	6th time	7th time	8th time	9th time	10th time	
Tightening torque	0.71	0.84	0.77	0.76	0.86	0.92	0.90	0.87	0.81	0.87	0.831
Breaking torque	0.58	0.57	0.57	0.60	0.63	0.62	0.65	0.65	0.69	0.65	0.621
Loosening torque ratio	82%	68%	74%	79%	73%	67%	72%	75%	85%	75%	74.7%

NITTOSEIKO CO.,LTD.

Fastener Division Global Sales Section

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



[Website]



[Inquiry Form]



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#Registered Scope
-Main Factory
-Yata Factory