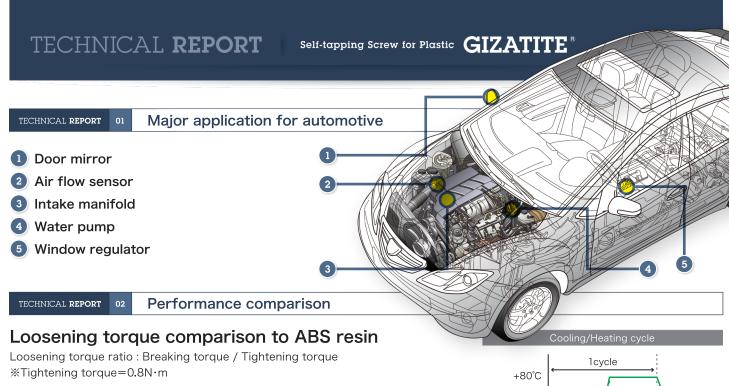
## **NITTOSEIKO**



- It can be manufactured from aluminium for weight saving.
- **Fastening Solution, Quality starts from the first turn.**



Room temperature After cooling/heating cycle After heating with vibration Loosening torque ratio (%) 60 50 40 30 20 10 B-TITE 3x8 P-TITE 3x8 GIZATITE 3x8 Tapping screw 3x8 Type of screws

Room temperature -25°C 0.5h

+80°C Room temperature

[ 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 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  $[N \cdot m]$ 

	Number of repetitions										Average
	1st time	2nd time	3rd time	4th time	5th time	6th time	7th time	8th time	9th time	10th time	value
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