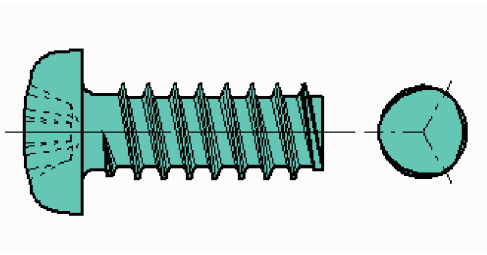
NITTOSEIKO

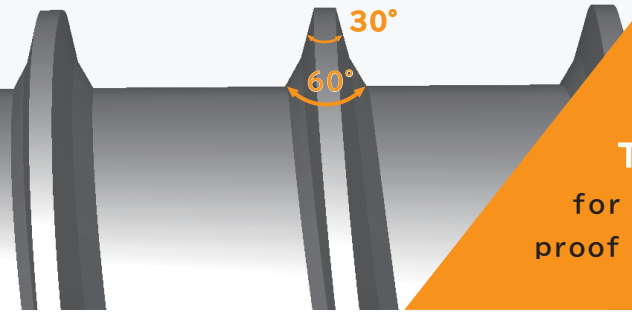
Solution for anti-cracking of high-strength plastics

EP-TITE®

Social requirement for environment-minded products is becoming stronger and stronger. This trend leads increasing of products made from plastic with aiming to raise recycling ratio of products. According to this trend, many manufacturers have to face using of high-strength plastic, so called “Engineering Plastic” for their products. But, because those plastics are harder to be plasticized than ordinary plastics, there was difficulty to fasten them by ordinary selftapping screws. NITTOSEIKO’s **EP-TITE®** has been developed to solve such problems.



Details of thread



EP-TITE® has integrated flank angle of 30 degrees and 60 degrees.
Its sharp crest not only prevents from cracking of plastic with relieving stress, but also realizes higher removal torque by interfering into female hole.

Trirobular, which has been trusted by many customers for years according to its lower driving torque and loose proof effect is given on **EP-TITE®**.

EP-TITE’s special features are;

1. It can be driven into high strength engineering plastics.
2. It will never cause cracking of boss.
3. It is hard to loose by its high removal torque.
4. It is available for repetitive use.

Those excellent features are recognized by many customers.
As the result, EP-TITE® has been used in some special applications like;

- Hard Disk Drive
- Motor for automobile’s power window
- Solenoid valve
- Video Camera
- Zoom unit of camera, etc.

If you are interested in to use our EP-TITE® for your concrete application, please send actual work pieces to our fastener laboratory. We can provide you more detailed data for your best fastening by examination.

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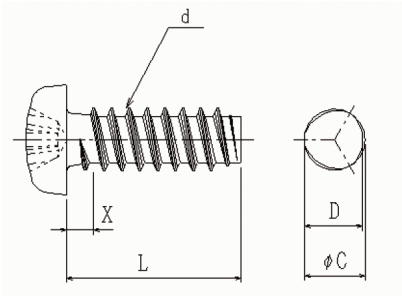
Dimension table of EP-TITE®

(Unit mm)

Nom. Dia. (d)	Pitch	Major Diameter of thread				Reference hole dia. (for PPS)
		C		D		
		Min.	Max	Min.	Max	
1.4	0.42	1.47	1.42	1.41	1.36	1.18 ~ 1.22
1.6	0.46	1.64	1.58	1.57	1.51	1.32 ~ 1.36
1.7	0.46	1.79	1.74	1.71	1.66	1.46 ~ 1.5
2	0.56	2.04	1.99	2.00	1.95	1.69 ~ 1.73
2.3	0.71	2.34	2.28	2.26	2.2	1.96 ~ 2.00
2.6	0.79	2.67	2.61	2.58	2.52	2.29 ~ 2.33
3	0.91	3.01	2.93	2.91	2.83	2.55 ~ 2.59
3.5	1.06	3.55	3.47	3.43	3.35	3.07 ~ 3.13
4	1.16	4.01	3.93	3.87	3.79	3.43 ~ 3.5
5	1.27	5.03	4.93	4.87	4.77	4.4 ~ 4.44



Remarks

1. Incomplete thread length x shall be less than 2 pitches.
2. You should check proper hole dia. by using actual work piece.

Manufacturing range of EP-TITE®

(Unit mm)

Length		Nominal diameter of thread									
Std.	Tol.	1.4	1.6	1.7	2.0	2.3	2.6	3.0	3.5	4.0	5.0
3	0 -0.3										
4	0 -0.3										
5											
6											
8											
10											
12	0 -0.8										
14					10						
16							13				
20	0 -1.2						14	14			
25								16	19	17	
30									15	22	20
35										22	25

Full thread possible

Only with indicated length of partial thread possible.

Not applied to countersunk head

NITTOSEIKO CO.,LTD.

Fastener Division
Global Sales Section

URL: https://global.nittoseiko.com/

[Website] [Inquiry Form]

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