

Tappex®



**TAPPEX
THREAD INSERTS LIMITED**

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TAPPEX TRISERT-3® TITANIUM

Tappex have been designing, developing and manufacturing many types of threaded inserts to meet the ever-changing demands of industries around the world.

The wide range of self-tapping inserts under the Trisert brand were developed to solve these requirements, in established markets where installation time and reliability are of prime importance.

In-line with our philosophy of continuous product development, Tappex have introduced a new material to the proven Trisert-3 range. Made from Titanium Grade 5 this option opens up opportunities for applications in particularly harsh environments, corrosive atmospheres and where weight is of prime importance.

Titanium has three key properties that make it particularly desirable.

1. High level of corrosion resistance.
2. Low density.
3. High strength.

The Trisert-3 Titanium retains all the advantages of the existing Trisert-3 range: Three facets offering balanced cutting, enhanced back out performance, large bearing surface, speed of installation, free running internal thread, compatibility with the existing Trisert / Trisert-3 hole sizes, reduced external diameter and fully supported cutting edges.

Titanium Grade 5 is an alloy of Titanium offering high strength, light-weight and excellent corrosion resistance.

When Titanium is exposed to atmosphere, a stable, substantially inert oxide film is immediately formed. It is this surface film that gives the material its excellent corrosion resistance.

Titanium does not corrode in normal seawater environments, or polluted waters such as ports and harbours.

Titanium has a high strength to weight ratio and a much lower density, approx. 50% lower than 316 stainless steel for example.

The part number is defined as per the Trisert-3 range with regular 6238, and long 6270 lengths as standard, followed by the thread size and material designation defined as -Ti5.



Specials, Imperial threads, headed and blind variants would be considered; Please contact our engineering department with your requirements.

Current and planned availability and key dimensions:

Part Number	Available	Thread Size	Length (mm)	Outside dia. (mm)	Hole dia. (mm)	Minimum boss dia. (mm)
6238M4-Ti5	Planned	M4	7.1	6.31	4.1 – 4.55	10.7
6238M5-Ti5	Yes	M5	8.4	7.50	6.9 – 7.35	12.6
6238M6-Ti5	Yes	M6	9.8	8.69	8.0 – 8.55	14.7
6238M8-Ti5	Planned	M8	12.4	11.06	10.1 – 10.85	18.6
6270M4-Ti5	Planned	M4	8.4	6.31	4.1 – 4.55	10.7
6270M5-Ti5	Yes	M5	10.0	7.50	6.9 – 7.35	12.6
6270M6-Ti5	Yes	M6	12.0	8.69	8.0 – 8.55	14.7
6270M8-Ti5	Planned	M8	14.0	11.06	10.1 – 10.85	18.6

The hole and minimum boss diameter are for guidance only and will depend on the particular grade of material which the inserts are being installed into. To determine the optimum dimensions for your application please contact our engineering department. Testing is always recommended.