



BaerCoil® Wire Thread Inserts - Materials

Materials	Tensile Strength	Temperature resistance	Examples of use
Stainless Steel V2A AISI 304 Material No.: 1.4301 X5CrNi18-10	>1400 N/mm ²	315°C long-term 425°C short-term	Standard applications for all property classes and materials for Thread Repair and Thread Reinforcement
Stainless Steel V4A AISI 316 Ti X6CrNiMoTi17-12-2 Material No.: 1.4571	>1400 N/mm ²	315°C long-term 425°C short-term	- increased corrosion protection - low thread friction - for high alloyed CrNi steel screws general lightweight construction sea water and chlorine-containing water
Inconel X750 NiCr15Fe7TiAl Material No.: 2.4669	>1150 N/mm ²	550°C long-term 750°C short-term	- aerospace technology - turbocharger - aeroplane engines - turbines - thermal power plants
Nimonic 90 NiCr20Co18Ti Material No.: 2.4632	>1150 N/mm ²	600°C long-term 900°C short-term	- high thermal load - high corrosion protection
Bronze CuSn6 CW452K Material No.: 2.1020	> 900 N/mm ²	250°C long-term 300°C short-term	- translation threads - CrNi screws - Cu workpieces - non-magnetic applications in sea water. best electric conductivity

Further materials like Nitronic 60, Inconel 625, Hastelloy and special materials - on request



BaerCoil® Wire Thread Inserts - Surface Treatments

surface treatments	color	applications
Cadmium Plating	Iridescent yellow	Provides high corrosion resistance and lubrication to prevent galling. Suitable up to 250°C
Zinc Plating	White	Provides corrosion resistance as an alternative to Cadmium.
Silver Plating	Silver white	To reduce galling of threads at high temperatures.
Cadmium Plate & Olive Drab	Olive Drab	As specified on US military specs such as NASM21209.
Dry Film Lubricated	Grey	Additional lubrication in high friction applications. Recommended for use with Screw Grip inserts.
BaerCoilGuard	Glossy Black	Prevents galvanic corrosion between insert and patent material. Eliminates the need for zinc primers. Improves installation productivity.

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