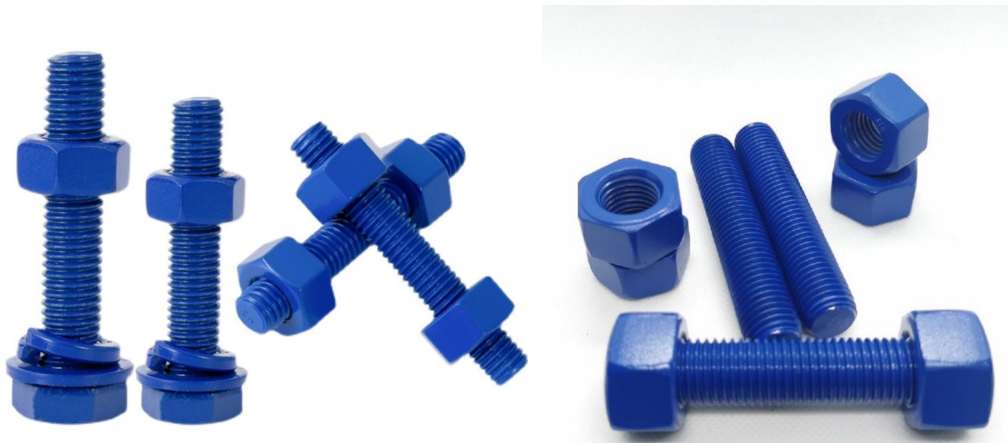


[www.chinastudbolt.com](http://www.chinastudbolt.com)

**We Supply High Quality of Xylan 1070 Coated stud bolt  
Xylan 1070 coated ASTM A193 B7 Stud bolt and A194  
2H heavy Hex nuts.**

Grades For stud bolts and threaded rods Grade B7 acc. to ASTM  
A193 is the most popular Grade

For the matching heavy hex. nuts is Grade 2H acc. to ASTM A194 the  
most popular Grade



**Surface:**

**Xylan 1070 Coating**

Xylan 1070 by Whitford is a PTFE coating, also called fluoropolymer coating, based on an organic solvent, widely used for anti corrosion coating for stud bolt. The friction coefficient is also very low, lower than electrolytic zinc plating. The layer thickness of this coating is usually approximately 25 mic (20 to 60 micron)

Specials Stud bolts and heavy hex nuts with a corrosion resistant surface treatment such as zinc plated, hot dip galvanised, Xylan 1424 (PTFE coating), can be supplied on request.

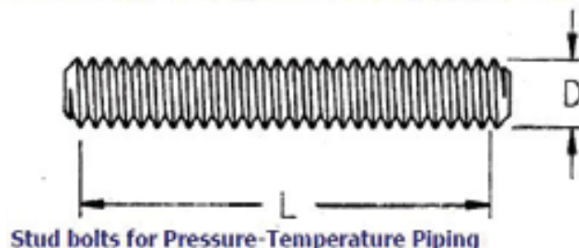
The material for B7 Studs and Nuts conform to the requirements of ASTM A193 Grade B7, AISI 4140, 4142, 4105

High strength carbon steel, maximum yield strength of 105,000 PSI and minimum tensile strength of 125,000 PSI

#### **Thread specification for ASTM A193 B7 Stud bolt**

- For 1" and smaller : threads are Unified inch coarse or fine series (UNC or UNF series), Class 2A, in accordance with ANSI/ASME B1.1
- For size larger than 1": threads are Unified coarse or 8 thread series (UNC or 8 UN Series)
- Screw threads are based on System 21 of ANSI/ASME B1.3

#### **STUD BOLTS FOR PRESSURE-TEMPERATURE PIPING**



#### **ASTM A193 Grade B7 Chemical Composition**

<b>C</b>	<b>Si</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Cr</b>	<b>Mo</b>
0.37-0.49	0.15-0.35	0.65-1.10	0.035 Max	0.040 Max	0.75-1.20	0.15-0.25

## **Mechanical Property of ASTM A193 Grade B7**

<b>Yeild strength</b>	<b>Tensile strength</b>	<b>Elongation</b>	<b>Reduction</b>	<b>Hardness</b>
<b>Min 0.2% Mpa</b>	<b>Min Mpa</b>	<b>Min %</b>	<b>Min %</b>	<b>HRB Max</b>
720	860	16	50	321

## **Heat Treatment of ASTM A193 Grade B7**

Hardened @850°C & Tempered @650°C

### **Certificates :**

with the delivery of stud bolts and heavy hex nuts

a 3.1 certificate acc. to EN 10204 is required.