

Recommended Temperature Ranges for Use*		
₽F	°C	Alloy Grade
		Inco 718
-450º to -250º	-272º to -157º	A286
-300º to -100º	-184º to -73º	Austenitic stainless steels
		AISI 4340
-100º to -30º	-73º to -34º	AISI 8740
		AISI 4037
-30º to 32º	-34º to 0º	AISI 4140
		Medium carbon steels
32º to 450º	0º to 232º	Low alloy steels
		Stainless steels
		Chromium-molybdenum alloy steels (AISI 4100, 8600, 8700 series)
		ASTM A193 B16
450º to 900º	232º to 482º	H11
		A286
		Inco 718
900º to 1200º	482º to 650º	Many super alloys
Above 1200º	Above 650º	A refractory alloy

Note: These are the most commonly used fastener alloys; many others are available that

will meet very specialized applications. The alloy selected for a fastener application must

not only maintain strength, etc., at the temperatures it will be heated to, it must also

resist the environment in which it is used. Thus, corrosion resistance of the metal selected must be considered.

\*(taken from IFI Fastener Standards, 6th Edition and ASM Metals Handbook, Vol. 1, 10th Edition)

These tables show expected compatibility. This information has no accommodation for specific user conditions, environments, mixtures of chemical/fluids/gases, temperature, pressure, etc. etc. Technical Threads LLG deny denies warranty or damages, expressed or implied, for the accuracy, currency and/or reliability of the information contained in this hart, and/or for the fitness for any particular use and/or for the performance of any materials referenced herein. Selection of materials is the sole responsibility of the end user. The information presented is believed to be accurate at the time of document creation. However, Technical Threads LLC is not responsible any chain traceable to any errors as contained herein. Technical Threads LLC makes no warranties as to the accuracy of this information.