

# FASTENER TRAINING INSTITUTE - WEBINAR (FEB 23, 2018)

## UNDERSTANDING FASTENER STRENGTH AND HARDNESS - LIST OF TERMS

In order to make best use of time in this webinar we will not cover all of the terms in detail, but will discuss from an applications and testing perspective. Have the list handy during the webinar for your reference as well as a copy of IFI Inch book on Fasteners, 9th edition.

Physical Properties	Chemical Analysis
Mechanical Properties	Cold Heading
Stress Area	Hot Heading
Nominal Size	Carbon Steel
Tensile Strength	Alloy Steel
Ultimate Strength	Boron Steel
Tensile Load	Super Alloy
Wedge Tensile Test	Quench and Temper
Proof Load Test	Annealing
Ductility Test	Strain Hardening
Yield Strength	Work Hardening
Young's Modulus	Tensile Stress Area
Fatigue Strength	Machined Test Specimen
Impact Strength	Metallurgical Examination
Torsional Strength	Mount
Shear Strength	Surface Finish
Preload	Stress Riser
Torque	Stress Riser
Tension	Discontinuity
Torque-Tension	Root Radius
Proportional Limit	Fillet Radius
psi (pounds per square inch)	Hydrogen Embrittlement
ksi (thousands of pounds per square inch)	Rolled Threads
lbf (pounds force)	Cut Threads
kips (thousands of pounds force)	Head Mark
MPa (Mega pascal)	Micro Hardness
Newtons	Superficial Hardness
kN (kilo Newtons)	Core Hardness
Hardness	Case Hardness
Hardenability	Rockwell Hardness
Ductility	Vickers Hardness
Reduction of Area	Knoop Hardness
Elongation	Brinell Hardness
Creep	Indenter
Plastic Deformation	
Heat Treatment	



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