

Metals Abbreviations and Acronyms

Abbreviation	Definition
AA	Aluminum Association
AAR	Association of American Railroads
ABS	American Bureau of Shipbuilding
ACDQ	Accelerated Cooling Direct Quench
ACI	Alloy Casting Institute
ADI	Austempered Ductile Iron
AFNOR	Association Francaise de Normalisation
AGA	American Gas Association
AISI	American Iron and Steel Institute
AMS	Aerospace Materials Specifications
AOD	Argon Oxygen Decarburization
API	American Petroleum Institute
AQ	Aircraft Quality
AREA	American Railway Engineering Association
ASCE	American Society of Civil Engineers
ASIE	American Society of Industrial Engineers
ASM	American Society for Metals (now ASM International)
ASME	American Society of Mechanical Engineers
ASQ	Aircraft Structural Quality
ASQ	Axle Shaft Quality
ASTM	American Society for Testing and Materials
AWWA	American Water Works Association
BH	Bake Hardenable (Steel)
BSI	British Standards Institute
BSSA	British Stainless Steel Association
CD	Cold Drawn
CDA	Copper Development Association
CERF	Civil Engineering Research Foundation
CF	Cold Formed or Cold Finished
CHQ	Cold Heading Quality
COF	Coefficient of Friction
CQ	Commercial Quality
CR	Cold Rolled
CRES	Corrosion REsistant Steel
CS	Commercial Steel
CSA	Canadian Standards Associates
CTE	Coefficient of Thermal Expansion
CVD	Chemical Vapor Deposition
CW	Cold Worked
CW	Cold Worked
D Steel	Dual Phase Steel
DA	Duplex Annealed
DDQ	Deep Drawing Quality
DDS	Deep Drawing Steel
DIN	Deutches Institut für Normung
DIPRA	Ductile Iron Pipe Research Association
DIS	Ductile Iron Society
DOE	Department of Energy (US Government)
DQ	Drawing Quality
DQSK	Drawing Quality Special Killed
DR	Dent Resistant (Steel)
DS	Drawing Steel
EDDQ	Extra Deep Drawing Quality
EDDS	Extra Deep Drawing Steel

ELI	Extra Low Interstitial
EMI	Electromagnetic Interference
EPA	Environmental Protection Agency (US Government)
ERW	Electrical Resistance Welding
ESCR	Environmental Stress Cracking Resistance
ESR	Electroslag Remelting
FDA	Food and Drug Administration (US Government)
FED	Federal Specification Number
FM	Factory Mutual
Frg	Forging
GMAW	Gas Metal Arc Welding
GP	General Purpose
GTAW	Gas Tungsten Arc Welding
HAZ	Heat Affected Zone (welding/joining)
HB	Brinell Hardness Number
HE	Hot Extruded
HF	Hot Finished
HIP	Hot Isostatic Pressing
HR	Hot Rolled
HRA	Rockwell A Hardness Number
HRB	Rockwell B Hardness Number
HRC	Rockwell C Hardness Number
HRPO	Hot Rolled, Pickled and Oiled
HSLA	High Strength Low Alloy (Steel)
HSS	Hollow Structural Steel
HT	Heat Treated
HV	Vickers Hardness
HW	Hot Worked or Hot Wrought
ISO	International Standards Organization
JIS	Japan Industrial Standard
ksi	1000 pounds per square inch (psi)
MASH	Mean Apparent Specific Heat
MIL SPEC	Military Specification Number
MIM	Metal Injection Molding
MMA	Manual Metal Arc Welding
MMC	Metal Matrix Composite
MSE	Materials Science and Engineering
NACE	National Association of Corrosion Engineers
NASA	National Aeronautics and Space Administration (US)
NB	No Break (Applied to Impact Test Results)
NHT	Not Heat Treated
NIST	National Institute of Standards and Technology
NSF	National Sanitation Foundation (nonregulatory agency)
OEM	Original Equipment Manufacturer
OSHA	Occupation Safety and Health Administration (US Government)
PH	Precipitation Hardened
PHT	Precipitation Heat Treated
PM (P/M)	Powder Metallurgy
POP	Point of Purchase (Marketing Displays)
PVQ	Pressure Vessel Quality
QA	Quenched and Aged
QT	Quenched and Tempered
RQ	Regular Quality
RT	Room Temperature
S Steel	Structural Quality Grade Steel
SA	Solution Annealed
SAE	Society of Automotive Engineers
SCHQ	Special Cold Heading Quality
SHT	Solution Heat Treated
SMA	Shape Memory Alloy
SMAW	Shielded Metal Arc Welding
Smls	Seamless
SQ	Structural Quality
SQ	Saw Quality
SQ	Solution Quenched

SQA	Solution Quenched and Annealed
SR	Stress Relieved
SS	Stainless Steel
SS	Structural Steel
STA	Solution Treated and Aged
STOA	Solution Treated and Overaged
TA	Triplex Annealed
TC	Tungsten Carbide
TCT	Tungsten Carbide Tipped
TYS	Tensile Yield Strength
UNI	Ente Nazionale Italiano di Unificazione (Italian standards body)
UNS	Unified Numbering System
UTS	Ultimate Tensile Strength
VAR	Vacuum Arc Remelting
VCD	Vacuum Carbon Deoxidation
VIM	Vacuum Induction Melting
W Steel	Weathering Grade Steel
WC	Tungsten Carbide
X Steel	Low Alloy Grade Steel

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