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LIST OF SYMBOLS AND ABBREVIATIONS

AISI	-	American Iron and Steel Institute
ASM	-	American Society for Metals
ASTM	-	American Society for Testing and Materials
ANOVA	-	Analysis of Variance
k	-	Archard's wear coefficient
γ	-	Austenite
BCC	-	Body Centered Cubic
BCT	-	Body Centered Tetragonal
C	-	Carbon
Cl ₂	-	Chloride
Cr	-	Chromium
CHT	-	Conventional Heat Treatment
I _{Corr}	-	Corrosion Current
E _{Corr}	-	Corrosion Potential
DCT	-	Deep Cryogenic Treatment
θ	-	Diffraction angle
En	-	Emergency Number
FCC	-	Face Centered Cubic
FFT	-	Fast Fourier Transform
f	-	Frequency
FWHM	-	Full Width Half Maximum
A	-	Hardening Temperature
Q ⁻¹	-	Inverse Quality Factor
d _{hkl}	-	Lattice Spacing
LVDT	-	Linear Variable Differential Transformer
V	-	Linear Velocity
Mn	-	Manganese

α	-	Martensite
M_f	-	Martensite finish temperature
MAUD	-	Material Analysis Using Diffraction
y_i	-	Measured Experimental Data
Mo	-	Molybdenum
F	-	Normal Load
OES	-	Optical Emission Spectroscope
n	-	Order of Diffraction
P	-	Phosphorous
Q	-	Quality Factor
HRC	-	Rockwell Hardness Number – C scale
SEM	-	Scanning Electron Microscope
SCT	-	Shallow Cryogenic treatment
S/N	-	Signal to Noise Ratio
Si	-	Silicon
Ag	-	Silver
B	-	Soaking Period
Na_2CO_3	-	Sodium Carbonate
S	-	Sulphur
D	-	Tempering Period
C	-	Tempering Temperature
Hv	-	Vickers Hardness
Y	-	Wear Loss
WR	-	Wear Resistance
XRD	-	X-Ray Diffraction
λ	-	X-ray wave length