

List of Symbols and Abbreviations

mm	Millimeter
AP	Armour Piercing
MPa	Mega Pascal
E	Energy absorbed
V	Volume of material participating in energy absorption
ASB	Adiabatic Shear Band
KE	Kinetic Energy
AA	Aluminium alloy
AAAV	Advanced amphibious assault vehicle
RHA	Rolled homogeneous armour
L	Longitudinal
LT	Long transverse
ST	Short transverse
SHPB	Split-Hopkinson pressure bar
UA	Under-aged
PA	Peak-aged
OA	Over-aged
DSC	Differential scanning calorimetry
OM	Optical microscopy
SEM	Scanning electron microscopy
EPMA	Electron probe micro analyser
XRD	X-ray diffraction
μ	Micron
ODF	Orientation Distribution Function
ε	Strain
σ	Stress

σ_{YS}	Yield strength
σ_{UTS}	Ultimate tensile strength
SFE	Stacking fault energy
$\varphi_1, \Phi, \varphi_2$	Euler angles
VHN	Vickers hardness number
$^\circ$	Degree
CVN	Charpy V-notch
n	Work hardening exponent
s	Second
V_s	Striking velocity of the projectile
V_r	Residual velocity of the projectile
DOP	Depth of penetration
J	Joules
PSN	Particle simulated nucleation
EDAX	Energy dispersive analysis of X-rays