



MIL-DTL-12560K

MIL-DTL-12560K is a military-specified armor steel plate that is approved by the Material Technology Laboratory, Department of the Army, for use in combat-vehicles and ammunition testing. This type of armor is intended for use on combat vehicles, and/or proof and acceptance testing of armor defeating ammunition. It is also applicable to armor for emplacements, shields, pill boxes, testing, and the like.

Typically, this grade of armor is used in the protection of land mines or explosive structures. It absorbs shock very well and therefore helps to keep shrapnel to a minimum. Each plate is tested to a Fragment Simulated Projectile standard which dictates the level of protection for which the plate will ultimately be used.

MIL-DTL-12560K Armor Steel Plate is designed for both good ballistic resistance as well as defending against IED.

Chemical Composition* – % Weight								
C	Mn	P	S	Si	Ni	Cr	Mo	V
.30	.30	.025	.015	.4	.5	.4	.15	.15

Physical Properties
Min. Hardness**
330 BHN

Largely known as Rolled Homogenous Armor, this variety comes in four different classes.

Classes	
Class 1	For resistance to penetration
Class 2	For resistance to shock
Class 3	For evaluation only. Not used on vehicles
Class 4	For maximum resistance to penetration

Thickness	
3/16" – 3"	For use in combat vehicles
1/4" – 12"	For use in proof and acceptance testing of armor defeating ammunition

Inventory Forms	
Class	Thickness
Class 1	0.25" – 6.00"
Class 2	0.25" – 1.25"
Class 3	2.00" – 6.00"

Min. Gauge	Max. Gauge	Class	BHN Range
0.098	0.249	1	360 – 410
0.250	0.624	1	340 – 390
0.625	1.125	1 & 3	330 – 380

*Typical maximum values. Chemical composition may vary by thickness. Mill certifications are available upon request.

** Typical BHN readings on this material are 377 to 415 with other impact and bend tests being performed as well.