

Some Phenomenological and Metallurgical Aspects associated with Impact of High Speed Projectiles

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Abstract— The impact of high speed projectiles involves velocities lies between few hundreds to few thousands m/s; and should be less than the sonic speed of either the projectile or target materials. It depends on many parameters: projectile and target materials, impact velocity, incident angle and the mass and shape of the projectile impacting end. In this paper, some of the phenomenological aspects associated with the impact of high speed projectiles are presented and discussed which include impact velocity, its length, shape of its impacting end, mode of deformation. Furthermore, the damages caused by it are also given and discussed together with methods of protection.