

SCMN

MANGANESE ALLOY STEEL



CHARACTERISTICS

Outstanding levels of toughness and impact resistance become unique to this variety of steel among those wear resistant materials used by the mining industry.

Manganese steels or also called Hadfield steel, after its developer, harden superficially by plastic deformation thus achieving the combination of two antagonistic properties of a material: wear resistance and impact resistance.

In those applications where other materials have sufficient toughness to meet normal operating conditions, the manganese steel is preferred for its ability to withstand impact overloads in critical or abnormal operating conditions. After casting, the parts are given a solubilized heat treatment and subsequent hipertemple that prevents the precipitation of carbides on the edge of austenitic grains. This operation allows to maximize in the service parts the high impact resistance inherent in such materials with this crystalline structure.

USI

Crushing machinery, cone crushers and mantle, fixed and mobile teeth crushers, crushing hammers, shovel teeth.

CHEMICAL COMPOSITION

Material	C	Mn	Si	Cr	Mo	S	P
SCMN	0.90	8.00	0.40	2.0	1.0	0.040	0.060
	1.40	18.00	0.60	máx.	máx.	máx.	máx.

SCMN

MANGANESE
ALLOY STEEL

FINAL
PRODUCT

