



60 rue de la Tuilerie - 38920 Crolles - France
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STEEL STEELHARD 250

This steel is used for the realization of wear blades of snow-plough , of attacks blades, parts of agricultural machinery, hammers of crushers, parts of dredgers. Of siliceous mangano type with high percentage of carbon, this steel offers remarkable mechanical characteristics and a very good resistance to abrasion. It is often equivalent and even superior in longevity to the steels of high hardness when it is used for the snow clearance. Indeed, its manufacturing process in fact a steel of the self-hardening type under action of heating caused by friction on the road and of cooling by snow.

MECHANICAL CHARACTERISTICS

Rm	=Mecanical resistance	=	950 à 1050 N/mm ²
Re		=	850 à 950 N/mm ²
A		=	12 à 15 %

HARDNESS = 280 à 320 HB

CHEMICAL COMPOSITION

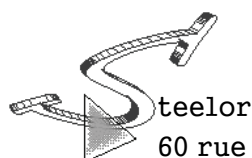
C	=	0,40 à 0,50	-	Mn	=	0,50 à 0,80	-	Si	=	1,60 à 2 -
S	=	0,035	-	P	=	0,035				

IMPLEMENTATION

- Cross by shearing or rather easy oxycutting
- Delicate folding and bending, to avoid - Rather difficult drilling and milling
- To use tools with cobalt
- Welding: To use the adapted products - ELECTRODES :ISARC MTD - ISARC 70 - ISARC 310 -
OR WIRES : ISAFIL 80G- ISAFIL 1632G

HEAT TREATMENT

- Standardization with 850° with cooling with air
- Case hardening
- Traditional hardening with oil with 880°, returned towards 540° -



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