

ROC Mn

ROC Mn is wear-resistant steel supplied in quenched condition. Heat treatment and high manganese content provide fully austenitic microstructure. ROC Mn is soft at the time of delivery but due to work hardening effect caused by impact its hardness can increase over 600 HBW.

STANDARDS

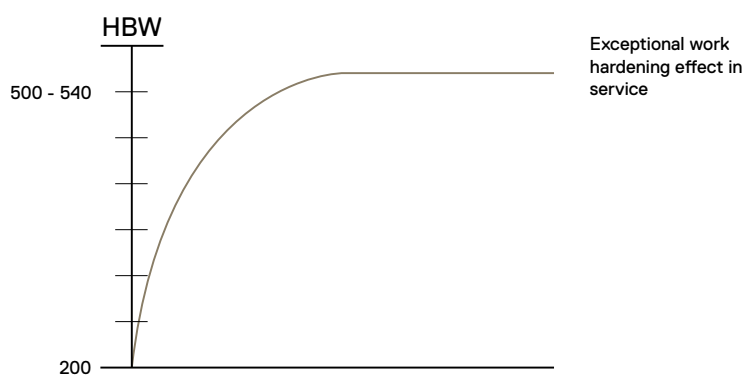
X120Mn12 or 1.3401 or Hadfield.

CHEMICAL COMPOSITION % (maximum values)

C	Mn	Cr	Cu	S	P	Si
≤ 1.30	≤ 13	≤ 1.50	≤ 0.40	≤ 0.04	≤ 0.10	≤ 0.50

MECHANICAL PROPERTIES (typical values)

Yield strength (MPa)	Tensile strength (MPa)	A5 (%)
380	800	40



PROCESSING REQUIREMENTS

WELDING AND FLAME CUTTING

Can be performed with all available methods. It is recommended to use austenitic welding consumables. Processes should be performed in room temperature with suitable preheating and heat input depending on plate thickness to avoid cold cracking.

DIMENSIONS & TOLERANCES

DIMENSIONS

ROC Mn is available in thickness range 3 – 60 mm and typical widths and lengths as well as special dimensions required by customer at the time of delivery.

TOLERANCES

According to EN 10029 for plate products.

According to EN 10051 for strip products.

CONTACT

TECHNICAL SUPPORT

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