

Information provided by parent company Masteel UK Limited

ASTM/ASME A/SA 516 Grade 60 / 65 / 70 in accordance with MASTERHIC 5 / 10 / 15

HIC Resistant steel for Pressure Equipment in Sour Service

MASTERHIC is Masteel UK Limited's designation for fine grain pressure vessel steels offering specific and superior properties for sour gas application. Manufactured via the basic oxygen or electric arc furnace with desulphurisation, dephosphorisation, ladle refining and vacuum degassing to provide ultra-clean and homogeneous steel. Particularly suited for pressure equipment where wet H₂S corrosion can be a problem.

Product Description:

MASTERHIC 5/10/15 is tested in accordance with NACE TM 0284 with test solution A (pH = 3)

Chemical Analysis:

	CLR (%)	CTR (%)	CSR (%)
MASTERHIC 5	≤ 5	≤ 1.5	≤ 0.5
MASTERHIC 10	≤ 10	≤ 3	≤ 1
MASTERHIC 15	≤ 15	≤ 5	≤ 2

C	Mn	Si	P	S	Ni	Cr	Mo	Cu
≤ 0.20	0.85 / 1.20	0.15 / 0.40	≤ 0.010	≤ 0.002	≤ 0.40	≤ 0.30	≤ 0.10	≤ 0.20

Key Features of MASTERHIC Products:

- Ultrasonic testing performed in accordance with ASTM A578 Level C
- Impact tested at -50 Deg C (Longitudinal)
- Supply Condition: Normalised
- Hardness tested according to NACE MR 0175 22HRC max
- Simulated Post Weld Heat Treatment
- Mill test certificates in accordance to EN10204 3.1, unless otherwise stated.
- Plate marking is carried out according to ASTM/ASME A/SA 20.

Masteel UK Limited are pleased to offer HIC Resistant steel plates from stock:

- Thicknesses 6mm to 100mm
- Full profiling facilities are also available
- Pre-allocated rolling schedules are available for projects based contracts.
- Maximum plate weight 15 tonnes

*Masteel reserve the right to amend MASTERHIC designations at any time and the above details should be rechecked at time of enquiry and in case of order.