



Masteel

the solution to your steel requirements

MASTERHIC – HIC resistant steel

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ASTM/ASME A/SA 516 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 electric arc furnace with desulphurisation, dephosphorisation, ladle refining and vacuum degassing to provide an 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 0284-03 with test solution A (pH ≈ 3)

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

Chemical Analysis:

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

The limits on unspecified elements of ASTM/ASME A/SA 20 Table 1 are not exceeded. For product analysis the admissible deviations from the indicated values for P and S are to be agreed.

Testing/ Documentation/ Identification

- Ultrasonic testing is 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
- 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 of 6mm to 100mm
- Full profiling facilities are also available.
- Pre-allocated rolling schedules are available for project based contracts.
- Maximum plate weight 15 tonnes

Material Supplied in accordance with company [Terms & Conditions of Sale](#)

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