

SA 516 GR.70N NACE MR 01030175 Plates

EQUIVALENT GRADE

British Standard	European Norm	ASTM/ASME	DIN
BS1501-224-490A/B	EN10028 P355GH	A/SA516 – Grade 70	–

SPECIFICATION

Grade	ASME SA 516 GR.70N Boiler and Pressure Vessel Steel Plates
Width	1000mm-4500mm
Thickness	5mm-150mm
Length	3000mm-18000mm
Supply Condition	As Rolled, Normalized Rolling, Furnace Normalizing, Vacuum Degassing, Simulated Post-Weld Heat Treatment or as per customer requirement.
Impact tested	52° C
Tempering	Notch toughness can be improved by quenched cooling from hot rolling or normalizing by the supplier. If such a faster cooling rate is agreed upon between purchaser and supplier then the steel is also to be tempered at 1200 F.
Applications	Used for weld fabrication of pressure vessels that require improved notch toughness for lower than ambient temperature service.
Process of Manufacturing	Hot-Rolled (HR)

CHEMICAL COMPOSITION

C	Si	Mn	P	S	Al	Cr	Cu	Ni	Mo	Nb	Ti	V
0.18	0.4	0.95/1.50	0.015	0.008	0.02 (Min)	0.3	0.3	0.3	0.08	0.01	0.03	0.02

MECHANICAL PROPERTIES

Tensile strength (ksi)	Yield strength (ksi)	Elongation min, % 200 mm (8 in)	Elongation min, % 50 mm (2 in)
485-620 (70-90)	260 (38)	17	21

Plate Size available Ex-Stock

1mm	2mm	3mm	4mm	6mm	8mm	10mm	12mm	14mm	16mm	20mm	25mm	30mm	32mm	36mm	40mm
45mm	50mm	63mm	70mm	72mm	75mm	80mm	90mm	100mm	110mm	130mm	150mm	170mm	180mm	200mm	
230mm	270mm	300mm													

Makes/Brands Available: SAIL, TATA, JSW, JSPL, Essar, POSCO, Uttam

DISCLAIMER: while great care has been taken to ensure the accuracy of all information contained in this document, Jaguar Steel India hereby disclaims any and all responsibility or liability that may be asserted or claimed arising from, or claimed to have arisen from, reliance upon the use or the interpretation of this document by any person This document may be subject to change at any time without warning.