



STAINLESS STEEL SA-351 CF8M

CF8M is a molybdenum bearing modification of CF8 Austenitic Steel alloy and is the cast equivalent of wrought AISI 316 stainless steel. The presence of molybdenum increases the general corrosion resistance and the resistance to pitting by chlorides.

Applications include valves, flanges, fittings and other pressure-containing parts. CF8M austenitic stainless steel is a commonly used alloy for products that require excellent overall corrosion resistance. This alloy is commonly used whenever the part will not be welded or can be solution annealed after welding. CF8M may be used at temperatures up to 1500F.

Chemical Composition

Element		%
Carbon	C	0.08 maximum
Silicon	Si	1.5 maximum
Manganese	Mn	1.5 maximum
Phosphorus	P	0.04 maximum
Sulphur	S	0.04 maximum
Chromium	Cr	18 - 21
Nickel	Ni	9 - 12
Molybdenum	Mo	2 - 3

Heat Treatment

CF8M is not hardenable by heat treatment.

Typical Mechanical Properties

Tensile Strength	485 MPa min.
Yield Strength	205 MPa min.
Elongation (in 50mm)	30 % min.

Comparative Specifications

Material	Country/Standards
A 351 Grade CF8M	USA/ASTM
SA-351 Grade CF8M	USA/ASTM
SCS 14A	Japan / JIS
1.4408	European Union/EN
EN 10283 (2010)	European Union/EN
J92900	USA / UNS

To discuss your requirements, call a member of NovaCast's team on +44 (0) 1225 707466, or email sales@novacast.co.uk

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy options rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of trading.

WWW.NOVACAST.CO.UK

A Single Source Solution for Precision Cast Components