

ASTM A 194M 9CA

ALLOY STEEL

NUT MATERIAL FOR HIGH TEMPERATURE SERVICE

ASTM A 194M 9CA is high chromium and high molybdenum content, (equivalent to UNS N08367) provides strong protection against corrosion. Durable even in such harsh environments as high-temperature seawater and flue gas desulfurization plants, this is an economical stainless steel and pure titanium in many environments. Nippon Yakin supplies this product in plate, sheet and strip forms. High concentrations of chromium, molybdenum and nitrogen, ASTM A194M 9CA exhibits superior resistance to pitting and crevice corrosion in chloride environments. It shows resistance even in harsh corrosive environments that conventional duplex stainless steels cannot not handle.

Chemical Properties

C	Si	Mn	P	S	Cr	Mo	Ni	Cu	N
0.030 Max	1.00 Max	2.00 Max	0.040 Max	0.030 Max	20.0-22.0	6.0-7.0	23.5-25.5	0.75 Max	0.18.025

Mechanical Properties

Proof Load Using Threaded Mandrel- METRIC (kN)

Hardness

TYPE	M6	M8	M10	M12	M14	M16	BHN	HRB	HRC
HEAVY HEX	11.1	20.1	31.9	46.4	63.3	86.4			
HEX	10.4	18.8	29.9	43.4	59.2	80.9	126-192	60-90	-

TYPE	M20	M22	M24	M27	M30	M36
HEAVY HEX	134.8	166.7	194.2	252.5	308.6	449.4
HEX	126.2	156	181.8	236.4	288.9	420.8

Heat Treatment

As Per Client Requirement.

Equivalent Designation

UNS N08367

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