



Features

High mechanical strength. High resistance to corrosion, particularly sea water, made easy. Good weldability, corrosion sensitive intracrystalline stress corrosion and failure to use appropriate heat treatment.

Routine use

Light machinery. And vacuum forming molds. Machining of parts. Machine structure. High strength welded structures for vehicles and containers, appliances, pressure vessels and cryogenic. Shipbuilding. Tools.

Possibilities and use

	CRITERIA	H-111
CORROSION	Resistance to normal atmosphere	Excellent
	Resistance industrial atmosphere	Excellent
ELECTRICAL COND.	Electrical conductivity	Medium
	Polishing	Not Used
SUP. TREATMENT	Industrial anodizing	Excellent
	Decorative anodizing	Not Used
	Hot folded	Excellent
	Cold folded	Excellent
CONFORMED	Inlaid/repulsed	Good
	Forged	Not Used
	Machining	Good
ASSEMBLY	Welding under protective atmosphere	Excellent
	Resistance welding	Good

Chemical composition

ELEMENTS	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Al	OTHER
MINIMUM	-	-	-	0.40	4.00	0.05	-	-	-	-	-
MAXIMUM	0.40	0.40	0.10	1.00	4.90	0.25	0.50	0.25	0.15	REST	-
% weight											

Mechanical features

METALLURGICAL STATUS	Rp 0.2 (MPa)	Rm (MPa)	A50 (%)	Hardness HB
H-111	140	275	25	80
MELTED	120	240	8	80