

APPLICATIONS FIELD

The 5XXX alloy series is an excellent combination of strength, weldability, corrosion resistance and toughness, making them ideal for applications where the above combination of characteristics is required. Alloy 5556 has slightly higher chemistry of Magnesium and Manganese with respect to 5356 alloy. In shipbuilding industry, the alloy is mostly used where slightly higher mechanical characteristics are required with respect to typical 5183 consumable alloy. As with all 5XXX series alloys with an Mg content higher than 3%, it is strongly recommended not to use them where welds are exposed to prolonged elevated temperatures.

**AWS A5.10
ER/R5556**

**EN ISO 18273:2015
S Al 5556 – AlMg5Mn1Ti(A)**

SHIELDING GAS GMAW/GTAW

Argon EN ISO14175: I1

Gas flow rate 14 -18 L./min.

AVAILABLE SIZE

D300/K300/KS300 spools from 6-7kg each
Drums = da 80 a 250kg each

MIG

Diameter
1,0mm – 1,2mm – 1,6mm

TIG

Diameter
1,6mm – 2,0mm – 2,4mm – 3,2mm – 4,0mm

* Other diameters on request

CHEMICAL ANALYSIS

BY WEIGHT % in%(m/m) ^(a)

Si	<0,25
Fe	<0,40
Cu	<0,10
Mn	0,50-1,0
Mg	4,7-5,5
Cr	<0,25
Ti	0,05-0,20
Be	<0,0003
	altri <0,05
	altri totali <0,15
Al	Rem

(a) Single values shown in the table are maximum values, unless otherwise noted.