

# ALLOY 5556 | AlMg5Mn1Ti

## KEY FEATURES

- Contains increased amounts of magnesium and manganese
- Provides higher tensile strengths of weld metal for the 5XXX series alloys such as 5083 and 5456

## ADVANTAGES

- All-position aluminum MIG wire
- Superior wire surface finish for the best feedability and arc performance
- Optimal manufacturing process to precisely control chemical composition
- State-of-the-art testing equipment to ensure trouble-free performance of the weld wire
- Manufactured under a quality system certified to ISO 9001 standard

## TYPICAL APPLICATIONS

- Structural frames in the shipbuilding industry
- Railway Industry
- Trailer Industries
- Automotive components
- Military
- Containers

## CONFORMS TO

- AWS/ASTM A5.10/A5.10M:2012
- EN ISO 18273:2004

## SHIELDING GAS

- 100% Argon
- Argon/Helium Mixtures
- Flow Rate: 30 - 50 CFH (14.2 - 23.6 L/min)

## CHEMICAL COMPOSITION

ALUMINUM ASSOCIATION	5556
AWS/ASTM A5.10 /A5.10M: 2012	ER5556 R5556
ISO 18273:2004 Numeral	S Al 5556
ISO 18273:2004 Chemical	AlMg5Mn1Ti
EN 573-3	No Equivalent

CHEMICAL COMPOSITION (%)		TYPICAL RESULTS
Al	Remainder	Remainder
Si	≤0.25	0.05
Fe	≤0.40	0.12
Cu	≤0.10	0.005
Mn	0.05-1.0	0.65
Mg	4.7-5.5	5.0
Cr	0.05-0.20	0.08
Zn	≤0.25	0.003
Zr	-	-
Ti	0.05-0.20	0.08
Be	≤0.0003	≤0.0003

## APPROVALS

**ABS**

AMERICAN BUREAU OF SHIPPING

per AWS A5.10-2012 WC (1/16" [1.6MM] ONLY)

See Product Approval Chart Pg.21

## PACKAGING

WIRE DIAMETER inches (mm)	PLASTIC SPOOL				BASKET SPOOL	ACCUPAK	ROD DIAMETER inches (mm)	TIG BOX	
	1 LB (0.45 KG)	5 LB (2.26 KG)	16 LB (7.26 KG)	20 LB (9 KG)	15.43 LB (7 KG)	300 LB (136KG)		10 LB (4.54 KG)	22.05 LB (10 KG)
0.030" (0.8 mm)	✓	✓	✓	✓	✓	✓	1/16" (1.6 mm)	✓	✓
0.035" (0.9 mm)	✓	✓	✓	✓	✓	✓	5/64" (2.0 mm)	✓	✓
0.040" (1.0 mm)	✓	✓	✓	✓	✓	✓	3/32" (2.4 mm)	✓	✓
3/64" (1.2 mm)	✓	✓	✓	✓	✓	✓	1/8" (3.2 mm)	✓	✓
1/16" (1.6 mm)	✓	✓	✓	✓	✓	✓	5/32" (4.0 mm)	✓	✓
							3/16" (4.8mm)	✓	✓

See AccuPak Payoff Accessories Pg.25