

# **SMT-4043H**

Aluminum Alloy Filler Metal  
for Welding of 3003,6005,6052 etc. AL-Alloy Steel



❖ Specification

AWS A5.10

ER 4043

EN ISO 18273

S Al 4043 (AlSi5)

❖ Description & Applications

This silicon-aluminum filler material is one of the oldest and most widely used welding alloys. It can be classified as a general purpose type filler alloy. Silicon with this alloy gives improved wetting action yielding a less crack sensitive bright weld bead. Excellent when aesthetics are of importance. Not recommended for material to be anodized. This grade may be used for:

- applications in about all the industrial manufacturing sectors, such as the automotive industry, the production of mobile equipments, the shipbuilding sector, etc.

❖ Weldable base materials

Heat-treatable base alloys, 6XXX series aluminum types (e.g. 6052, 6053).

❖ All-Weld metal mech. Properties

Tensile Strength (Rm) :  $\geq 120$  N/mm<sup>2</sup>

Yield Strength (RP0.2) :  $\geq 40$  N/mm<sup>2</sup>

Elongation :  $\geq 8\%$

❖ Chemical Composition

Si	Fe	Cu	Mn	Mg	Zn	Ti	Be
4.50	Max	Max	Max	Max	Max	Max	Max
6.00	0.60	0.30	0.05	0.05	0.10	0.15	0.0003

❖ Standard Packaging data

Welding Process	Product Type	Ø mm (inches)	Packing Type	Weight Kg (lbs)	Length mm (inches)
GMAW	filler wire	0.80 - 1.20 (0.030 - 0.047)	Spools BS300 / D300	7 (33)	N/A
GTAW	filler rod	1.60 - 4.00 (1/16 - 5/32)	Cardboard Boxes / tubes	5 (11)	1000 (39.4)

❖ Type approvals

ABS (GMAW)

LR (GMAW)

BV (GMAW)

RINA (GMAW)

CWB (GMAW/GTAW)

TÜV (GMAW)

DNL GL (GMAW)

CE (GMAW)