

# SMT-4043(H)

Type : MIG/TIG

## Conformances

AWS A5.10/ ASME SFA5.10 ER4043

EN ISO 18273 S Al 4043 (AISI5)

## Applications

- All the industrial manufacturing sectors, such as the automotive industry, the production of mobile equipments, the shipbuilding sector, etc.

## Features

- 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 the color well with the parent metal after anodizing.
- SMT-4043H is used for shipbuilding, automobile, railway parts industry, etc. because it has excellent feedability by controlling impurities

## Welding Position

## Current

GMAW: DC+(Pulse)

GTAW: DC-

## Shielding Gas

Ar, Ar+He

## Diameter / Packaging

Diameter	MIG	TIG
mm (in)	12.5kg (27.6lbs)	5kg (11lbs)
1.0 (0.039)	√	
1.2 (0.045)	√	
1.6 (1/16)	√	√
2.0 (5/64)		√
2.4 (3/32)		√
3.2 (1/8)		√

## Typical Chemical Composition of the Wire (%)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
SMT-4043(H)	5.07	0.12	0.03	0.02	0.01	-	0.03	0.02	Rem

## Typical Mechanical Properties of All-Weld Metal

YS Mpa(lbs/in <sup>2</sup> )	TS Mpa(lbs/in <sup>2</sup> )	EL (%)	Temp °C(°F)	CVN-Impact Value J (ft.-lbs)
-	≥120 (≥17,400)	≥8		

SMAW

SAW

GMAW

GTAW

FCAW

Non-FERROUS

APPENDIX