



DATA SHEET
DS 140
Rev. 0 dd 28/05/2014
INETIG AL5%SI – 4043

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CLASSIFICATION

AWS SPECIFICATIONS	EN SPECIFICATIONS
AWS A 5.10: ER4043	EN ISO 18273: S AISi5
AWS A 5.10M: R4043	EN ISO 18273: S Al 4043
ASME SFA 5.10: ER4043	
ASME SFA 5.10M: R4043	

APPROVALS

ALLOY TYPE

4043 for welding aluminum alloy containing 5% silicon.

APPLICATIONS

Tig rod designed for welding aluminum alloys containing 2% maximum of alloy elements and aluminum alloys with a silicon content up to 7%. It finds application in constructions and car fabrication. Excellent characteristics of fluency and penetrations. To be used under the shield of Argon.

MATERIALS TO BE WELDED

ASTM	EN	Others
	(DIN 1725-1: AlMgSi0.5)	EN AW 6060 - AlMgSi0.5
	(DIN 1725-1: AlMgSi0.7)	EN AW 6082 - AlMgSi1
	(DIN 1725-1: AlMgSi0.8)	
	(DIN 1725-2: G-AlSi5)	

WELDING GUIDELINES

PWHT is not required.

TECHNICAL INFORMATION

Gas: Argon (EN ISO 14175)
 Welding positions: all positions





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TYPICAL CHEMICAL COMPOSITION OF WIRE

Mn %	Si %	Cu %	Cr %	Ti %	Mg %	Zn %	Fe %	Al %	
0.01	5.00	0.02	0.01	0.01	0.01	0.01	0.14	Bal.	

TYPICAL MECHANICAL PROPERTIES

GAS		Yield strength	Tensile strength	Elongation on % 5d
		Rs	Rm	A 5d
		(MPa)	(MPa)	%
Argon	as welded	40	120	8

PRODUCTS AVAILABLE

Process	Product	Classification AWS	Classification EN
MIG/MAG	INEFIL AL5%SI - 4043	AWS A 5.10: ER4043	EN 18273: S AISi5
Solid wire			
TIG			
Rods			
SMAW			
Electrodes			