

# SuperGlaze® TIG 5183

## CLASSIFICATION

<b>AWS 5.10</b>	R5183	<b>A-Nr</b>	-
<b>ISO 18273</b>	S Al 5183 [AlMg4.5Mn0.7(A)]	<b>F-Nr</b>	22
<b>EN 573.3</b>	EN AW-AlMg4.5Mn	<b>Mat-Nr</b>	3.3548

## GENERAL DESCRIPTION

Designed to meet the tensile strength requirements of magnesium alloys  
For base materials 5083 and 5654

## SHIELDING GASES (ACC. ISO 14175)

I1	: Inert gas Ar (100%)
I3	: Inert gas Ar+ 0.5-95% He
Flow Rate	: 8 - 15 L/min

## APPROVALS

ABS	GL	LR	DB	TÜV	DNV	BV	WlWeb
+	+	+	+	+	+	+	+

## CHEMICAL COMPOSITION (W%) TYPICAL WIRE

Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Be
bal.	max. 0.4	max. 0.4	max. 0.1	0.5-1.0	4.3-5.2	0.05-0.25	max. 0.25	max. 0.15	max. 0.0003

Notes : Unspecified elements should not exceed a total of 0.15%

## MECHANICAL PROPERTIES. TYPICAL. ALL WELD METAL

	Shielding gas	Condition	Yield strength [N/mm <sup>2</sup> ]	Tensile strength [N/mm <sup>2</sup> ]	Elongation [%]
<b>Typical values</b>	I1	AW	125-165	270-290	16-25

## PHYSICAL PROPERTIES

Melting range	: 568 - 638°C
Density	: approximately 2660 kg/m3

## APPLICATIONS

Marine fabrication and repair	Military Industry
Cryogenic tanks	Railway & Automotive Industry
Shipbuilding and other high strength structural aluminium applications	Trailer Industry and Offshore

## PACKAGING AND AVAILABLE SIZES

Diameter (mm)	1.6	2.0	2.4	3.2	4.0
<b>5 kg cardboard box</b>	X	X	X	X	X

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