



SAQ
SIAT

**TECHNICAL SPECIFICATION
GMAW WELDING WIRE
PITTARC G6**

Document
Revision
Date
Page

SPP108
12 i
18.09.2014
1/2

1. DESCRIPTION

Gas shielded welding wire in according to standard UNI EN ISO 14341-A-G 3Si1 and AWS A5.18 ER70S-6 suitable to join common steels for construction, pressure vessels, machinery, ship buildings. Available in copper coated wire and no-copper wire.

2. PRODUCT CHEMICAL COMPOSITION (%)

		C	Mn	Si	P	S	Cr	Ni	Mo	Cu *	Al	V
PITTARC G6	min	0.06	1.40	0.80	-	-	-	-	-	-	-	-
	max	0.14	1.60	1.00	0.025	0.025	0.15	0.15	0.15	0.30	0.02	0.03
EN ISO 14341-A- G 3Si1	min	0.06	1.30	0.70	-	-	-	-	-	-	-	-
	max	0.14	1.60	1.00	0.025	0.025	0.15	0.15	0.15	0.35	0.02	0.03
AWS A5.18 ER70S-6	min	0.06	1.40	0.80	-	-	-	-	-	-	-	-
	max	0.15	1.85	1.15	0.025	0.035	0.15	0.15	0.15	0.50	-	0.03

NOTE: * Cu max 0.10% for no-copper wire and wire without coating.

3. WIRE DIMENSIONS

Standard diameter (mm) : 0.8 ; 1.0 ; 1.2 ; 1.4 ; 1.6

Permissible deviations : ISO 544

4. CAST AND HELIX (STANDARD PACKAGING)

Cast (mm) : 800 ÷ 1000

Helix (mm) : maximum 10

5. ALL-WELD-METAL MECHANICAL PROPERTIES

	Re MPa	Rm MPa	A5 %	KV (-20°C) J	KV (-30°C) J	KV (-40°C) J
EN ISO 14341-A- G42/46 4 M21 3Si1	≥ 420	≥ 500	≥ 20	≥ 47	-	≥ 47
	≥ 460	≥ 530				
AWS A5.18 ER70S-6	≥ 400	≥ 480	≥ 22	-	≥ 27	-
PITTARC G6	≥ 420	≥ 500	≥ 22	≥ 47	≥ 47	≥ 47

Gas protection : ISO 14175 C1 (CO2) / ISO 14175 M21 (80% Ar + 20% CO2).

Classification : EN ISO 14341-A- G 42 2 C1 3Si1 / EN ISO 14341-A- G 42/46 4 M21 3Si1

Recommended welding parameters (diam. 1,2 mm): 250÷300A; 25÷30V; wire feed speed ~5m/min; travel speed ~6mm/sec; tip to work ~20mm.

6. STANDARD PACKAGING.

Wire basket rim RG (ISO 544 B300) of 18 kg net weight. Each spool sealed in a polyethylene airtight bag and packed into a cardboard box. 72 spools stacked onto a pallet secured by thermoplastic shrink-wrapping (94x125x80 cm, 1296kg net weight). Available cardboard drums of about 250kg net weight, each one stacked onto a pallet 105x105x90 cm of about 1000kg total weight, secured by thermoplastic shrink-wrapping. On request packaging available from 15 kg up to 700 kg.

7. STANDARD IDENTIFICATION.

A label is attached to the inside of each spool containing nominal diameter, trade name, classification, heat number, operator code. A label is attached to every box containing manufacturer, trade name, nominal diameter, heat number, spool type, references to the standards, CE mark and approvals.

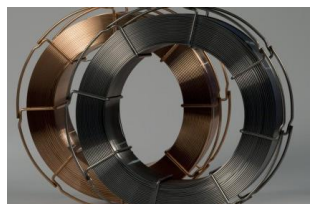


SAQ
SIAT

**TECHNICAL SPECIFICATION
GMAW WELDING WIRE
PITTARC G6**

Document
Revision
Date
Page

SPP108
12 i
18.09.2014
2/2



 PITTARC	SIAT S.p.A. 33013 Gemona del Friuli (UD) ITALY								
 0036 06 ref. DoP PITTARC G6-2014-04 EN 13479:2004 Use in metallic structures or in composite metal and concrete structures	PITTARC G6 Welding wire for carbon steels and fine-grained steels EN ISO 14341-A – G 42/46 4 M21/ G42 2 C1 3Si1 and AWS A5.18 ER70S-6 Shielding gas according to ISO 14175 C1-M21 Current/Polarity G+, Welding positions: PA-PB-PC-PD-PE-PF-PG APPROVALS: ABS, RINA, LRS, DNV, GL, BV, TUV Nr.07150, DB-Zul.-Nr. 42.044.01/01 <table><tr><td>Weight kg</td><td>Heat N°</td><td>Diameter</td><td>Spool type</td></tr><tr><td>XX</td><td>XXXXXX/XX</td><td>X,X mm</td><td>X XXX</td></tr></table>	Weight kg	Heat N°	Diameter	Spool type	XX	XXXXXX/XX	X,X mm	X XXX
Weight kg	Heat N°	Diameter	Spool type						
XX	XXXXXX/XX	X,X mm	X XXX						

8. STANDARD CERTIFICATION.

Documents according to EN 10204

9. APPROVALS

ABS, RINA, LRS, DNV, GL, BV, TÜV, DB.