CARBOFIL 1 GOLD



MIG MAG Wires C-Mn and low-alloy steels

CARBOFIL 1 GOLD is a special bronze-coated G3Si1/ER70S-6 type solid MAG welding wire, supplied both random and precision layer wound, depositing C-1.1%Mn weld metal, for welding a wide range of mild and C-Mn structural steels. Suitable for welding with CO2 and Ar-based mixed shielding gases.

CARBOFIL 1 GOLD has a very good arc stability, excellent feeding properties, low spatter during welding, good start and stop characteristics with a low consumption of contact tips. Applications are the same as CARBOFIL 1, but especially suitable for welding in spray arc.

CARBOFIL 1 GOLD is available with a wide range of packaging formats from standard spools to high-quantity (max. 300 kgs drum) robotic application. The "GOLD" coating is produced with MHC technology, which guarantee a low content of elements associated with arc instability.

Classification			
EN ISO	14341-A: G 42 3 C G3Si1		
EN ISO	14341-A: G 42 4 M G3Si1		
AWS	A5.18: ER 70S-6		

Approvals	Grade	
ABS	3SA	
ABS	3YSA	
BV	SA3YM	
DB	•	
GL	3YS	
LRS	3YS H15	
RINA	3YS	
TÜV	•	
0.000		

(€

Chemical analysis (Typical values in %)

	C	Mn	Si	Р	S
Wire	0.08	1.5	0.9	≤ 0.025	≤ 0.025
All weld metal (*)	0.08	1.1	0.6	≤0.025	≤0.025
All weld metal (**)	0.09	1.0	0.5	≤0.025	0.025

^{(*) 82%} Ar+18% CO2, (**) 100% CO2

All-weld metal Mechanical Properties

Heat Treatment	Yield Strength	Tensile Strength	Elongation	Impact Energy ISO - V (J)		
neat freatment	(MPa)	(MPa)	A5 (%)	+20 °C	-30 °C	-40 °C
As Welded (*)	≥420	500-640	≥24	>90	≥70	>47
As Welded (**)	≥420	500-640	≥22	>70	>47	

Gas test: (*) M21-Arcal 21, (**) C1-Arcal

Shielding Gas - EN ISO 14175 : M2 - C1

Materials

S(P)235 - S(P)355; GP240; GP280

Storage

Keep dry and avoid condensation



