CARBOFIL 1

TOP FEATURES

- Very consistent welding performance
- Optimal bead profile appearance and minimal spatters
- Available in all packagings from spools to drums.

TYPICAL APPLICATIONS

- General fabrication
- Heavy Fabrication
- Automotive
- Structural fabrication
- Robotics

CLASSIFICATION

AWS A5.18 ER70S-6 EN ISO 14341-A G 42 3 C1 3Si1

G 42 4 M21 3Si1

SHIELDING GASES (ACC. EN ISO 14175)

C1 Active gas 100% CO₂

M14 Mixed gas Ar+ 0.5-5% CO₂+ 0,5-3% O₂

M21 Mixed gas Ar+ 15-25% CO₂

APPROVALS

ABS	LR	DNV	ΤÜV	DB	CE
+	+	+	+	+	+

CHEMICAL COMPOSITION (WEIGHT %), TYPICAL, WIRE

С	Mn	Si	Р	S
0.08	1.4	0.9	≤0.025	≤0.025

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Chialdian and	C diri*	Yield strength	ield strength Tensile strength (MPa) (MPa)	Elongation (%)	Impact ISO-V (J)		
	Shielding gas	Condition*	(MPa)			+20°C	-30°C	-40°C
Typical values	M21	AW	≥420	500-640	≥24	≥90	≥70	≥47
	C1	AW	≥420	500-640	≥22	≥70	≥47	

^{*} AW = As welded



PACKAGING AND AVAILABLE SIZES

Wire diameter (mm)	Packaging	Weight (kg)	
0.5	SPOOL (S200)	5.0	
0.6	SPOOL (S300)	15.0	
	SPOOL (S200)	5.0	
0.0	SPOOL (B300)	16.0	
0.8	SPOOL (BS300)	16.0	
	DRUM	300.0	
0.9	SPOOL (B300)	16.0	
	SPOOL (S200)	5.0	
	SPOOL (S300)	15.0	
1.0	SPOOL (B300)	16.0	
	SPOOL (BS300)	16.0	
	DRUM	300.0, 500.0	
	SPOOL (S200)	5.0	
	SPOOL (S300)	15.0	
1.2	SPOOL (B300)	16.0	
	SPOOL (BS300)	16.0	
	DRUM	300.0, 600.0	
1.5	SPOOL (B300)	16.0	
1.6	DRUM	250.0	

TEST RESULTS

Test results for mechanical properties, deposit or electrode composition and diffusible hydrogen levels were obtained from a weld produced and tested according to prescribed standards, and should not be assumed to be the expected results in a particular application or weldment. Actual results will vary depending on many factors, including, but not limited to, weld procedure, plate chemistry and temperature, weldment design and fabrication methods. Users are cautioned to confirm by qualification testing, or other appropriate means, the suitability of any welding consumable and procedure before use in the intended application

Safety Data Sheets (SDS) are available here:



Subject to Change – The information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.eu for any updated information.

