

FILCORD C

TOP FEATURES

- Good performances in terms of feedability and weldability
- Stable arc and low spatter
- High productivity

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% CO ₂
M21	Mixed gas Ar+ >15-25% CO ₂
M14	Mixed gas Ar+ 0.5-5% CO ₂ + 0,5-3% O ₂

APPROVALS

ABS	LR	DNV	TÜV	DB	CE
+	+	+	+	+	+

CHEMICAL COMPOSITION (WEIGHT %), TYPICAL, WIRE

C	Mn	Si	P	S
0.08	1.5	0.9	≤0.025	≤0.025

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

Shielding gas	Condition*	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J)		
					+20 °C	-30 °C	-40 °C
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)	Item number
0.6	SPOOL (S200)	5.0	C06P005R6E22
0.8	SPOOL (S200)	5.0	C08P005R6E22
	SPOOL (S300)	15.0	C08P015S6E22
	SPOOL (B300)	16.0	C08K016P6E22
1.0	SPOOL (S200)	5.0	C10P005R6E22
	SPOOL (S300)	15.0	C10P015S6E22
	SPOOL (B300)	16.0	C10K016P6E22
	SPOOL (B5300)	16.0	C10L016S6E22
	DRUM	300.0	C10D300E6E22
1.2	SPOOL (S300)	15.0	C12P015S6E22
	SPOOL (B300)	16.0	C12K016P6E22
	SPOOL (B5300)	16.0	C12L016S6E22
	DRUM	300.0	C12D300E6E22
1.6	SPOOL (B300)	16.0	C16K016P6E22

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.