

# CARBOFIL

## TOP FEATURES

- Used mainly for single pass welding and for steels that have a rusty or dirty surfaces.
- Stable arc and excellent feedability.
- Excellent mechanical properties.

## TYPICAL APPLICATIONS

- General fabrication
- Construction
- Automotive

## CLASSIFICATION

AWS A5.18	ER70S-3
EN ISO 14341-A	G 38 3 C1 2Si
	G 42 3 M21 2Si

## SHIELDING GASES (ACC. EN ISO 14175)

C1	Active gas 100% CO <sub>2</sub>
M21	Mixed gas Ar+ 15-25% CO <sub>2</sub>

## APPROVALS

DB	CE
+	+

## CHEMICAL COMPOSITION (WEIGHT %), TYPICAL, WIRE

C	Mn	Si	P	S
0.08	1.1	0.6	≤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
Typical values	M21	AW	≥420	480-550	≥22	≥90	≥47

\* AW = As welded

## PACKAGING AND AVAILABLE SIZES

Wire diameter (mm)	Packaging	Weight (kg)	Item number
0.8	SPOOL (B300)	16.0	C08K016P1E11
1.0	SPOOL (B300)	16.0	C10K016P1E11
1.2	SPOOL (B300)	16.0	C12K016P1E11
	SPOOL (BS300)	16.0	C12L016P1E11
	DRUM	300.0	C12D300E1E11

## 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](http://www.lincolnelectric.eu) for any updated information.