

CARBOFIL KV5

TOP FEATURES

- Very clean welding wire with guaranteed X<15 ppm Bruscato factor, and with controlled As, Sb, Sn content against temper embrittlement.
- Ideal for the welding of creep resistant steels
- Also suitable where some resistance to hydrogen attack by sulphur bearing crude oil is required.

TYPICAL APPLICATIONS

- Petrochemical
- Nuclear Power generation

CLASSIFICATION

AWS A5.28	ER80S-B2
EN ISO 21952-B	G 55 M 1CM

SHIELDING GASES (ACC. EN ISO 14175)

C1	Active gas 100% CO ₂
M21	Mixed gas Ar+ 15-25% CO ₂

CHEMICAL COMPOSITION (WEIGHT %), TYPICAL, WIRE

C	Mn	Si	P	S	Cr	Ni	Mo	Cu
0.09	0.55	0.55	0.005	0.005	1.3	0.05	0.5	0.12

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Shielding gas	Condition*	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J) -20°C
Typical values	M21	PWHT 620°C/1h	≥470	≥550	≥20	≥70

*PWHT = Post Welding Heat Treatment

PACKAGING AND AVAILABLE SIZES

Wire diameter (mm)	Packaging	Weight (kg)	Item number
1.0	SPOOL (S300)	16.0	W000283635
1.2	SPOOL (S300)	16.0	W000283637

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.