

# CARBOFIL NiMoCr

## TOP FEATURES

- Excellent mechanical properties.
- For low temperature applications down to -40°C.
- Low heat inputs are recommended to obtain optimum joint mechanical properties.

## TYPICAL APPLICATIONS

- Infrastructures
- Earthmoving
- Cranes
- Structural Steels

## CLASSIFICATION

AWS A5.28	ER110S-G
EN ISO 16834-A	G 69 4 M21 Mn3Ni1CrMo

## SHIELDING GASES (ACC. EN ISO 14175)

M20	Mixed gas Ar+ 5-15% CO <sub>2</sub>
M21	Mixed gas Ar+ 15-25% CO <sub>2</sub>
M24	Mixed gas Ar+ 5-15% CO <sub>2</sub> + 0,5-3% O <sub>2</sub>
M26	Mixed gas Ar+ 15-25% CO <sub>2</sub> + 0,5-3%O <sub>2</sub>

## APPROVALS

TÜV	DB	CE
+	+	+

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

C	Mn	Si	P	S	Cr	Ni	Mo
0.08	1.6	0.5	≤0.015	≤0.015	0.25	1.5	0.25

## MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Shielding gas	Condition*	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J) -40°C
Typical values	M21	AW	≥700	≥790	≥20	≥64

\* AW = As welded

## PACKAGING AND AVAILABLE SIZES

Wire diameter (mm)	Packaging	Weight (kg)	Item number
1.0	SPOOL (S300)	15.0	S10P015PVE11
	SPOOL (B300)	16.0	S10K016PVE11
	DRUM	300.0	S10D300EVE11
1.2	SPOOL (B300)	16.0	S12K016PVE11
	DRUM	300.0	S12D300EVE11
1.6	SPOOL (B300)	16.0	S16K016PVE11

#### 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.  
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