

Classifications

EN ISO 18276-A	EN ISO 18276-B	AWS A5.29	AWS A5.29M
T 69 4 Z P M 1 H5	T765T1-1MA-N4M1-H5	E111T1-K2M-JH4	E761T1-K2M-JH4

Characteristics and typical fields of application

Union RV NiMoCr is a medium alloyed seamless copper coated rutile flux cored wire with fast solidifying slag for GMAW with mixed gas M21 acc. to EN ISO 14175. The wire is suitable for the welding in all positions of quenched and tempered or thermomechanical rolled fine grain structural steels as well as joining of wear-resistant structural steels. It's furthermore characterized by a stable arc, good weldability, low spatter affinity, a good bead appearance and good slag detachability. The fast solidifying slag allows the manual and mechanized welding in overhead positions. The weld metal deposit offers excellent toughness properties at low temperatures.

Base materials

Fine Grain Steels S620Q - S690QL1
(N-A-XTRA 63, N-A-XTRA 70), S700MC (PAS 700; Weldox 700)
Wear-resistant Steels 20MnCr6-5, 21MnCr6-5,
20MnCr4-3, 28MnCr4-3

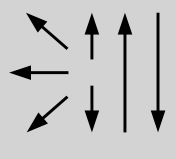
Typical analysis of all-weld metal (wt.-%)

	C	Si	Mn	P	S	Ni	Mo	Cr	Gas
wt-%	0.07	0.50	1.7	≤ 0.015	≤ 0.015	2.0	0.20	+	M21

Mechanical properties of all-weld metal

Heat-treatment	Shielding gas	Yield strength R _{p0.2}	Tensile strength R _m	Elongation A (L ₀ =5d ₀)	Impact work ISO-V KV J	
		MPa	MPa	%	+20 °C	-40 °C
aw	M21	690	770	17	90	69

Operating data

	Polarity: DC (+)	Shielding gas: (EN ISO 14175) M21	∅ (mm) 1.2	Spool B300	Amps A 120 – 350	Voltage V 17 – 32
		Consumption: 15 – 18 l/min				

Approvals

DNV, LR, ABS, BV, GL