# SUPRANEL Ni1



# MMA Electrodes Nickel and Copper alloys

SUPRANEL Ni1 is a basic-coated MMA electrode for welding pure nickel components and for joining these materials to unalloyed or low-alloyed steels, dissimilar joints.

Typical specications for this nickel base metal are ASTM B160, B161, B162, and B163, all of which have UNS Numbers N02200 or N02201. Suitable for buffer layers on corrosion-resistant, unalloyed or low alloy steels, before joining to nickel or copper alloys.

Pure nickel is used for its corrosion resistance in the chemical industry – particularly for its resistance to alkalis.

Low-hydrogen electrode suitable for all position welding of pure nickel and nickel alloys

Classifi	cation
EN ISO	14172: E Ni 2061
AWS	A5.11: E Ni-1

## **Chemical analysis (Typical values in %)**

C	Mn	Si	Р	S	Ni	Fe	Ti
0,01	0,3	8,0	0.005	0,005	Rem	0.2	1,5

## **All-weld metal Mechanical Properties**

Heat Treatment	Yield Strength	Tensile Strength	Elongation	Impact Energy ISO - V (J)
	(MPa)	(MPa)	A5 (%)	-196 °C
As Welded	≥ 200	≥ 410	≥ 35	≥ 100

#### **Materials**

2.4066; 2.4068; 2.4061; 2.4060 UNS NO2200: UNS NO2201: UNS NO2205

#### Storage

Keep dry and avoid condensation.

Re-drying not generally required.

Re-dry at 300-350 °C for 1 hour, 5 times max.

# Current condition and welding position DC+ PA PB PC PD PE PF

### Packaging data

Diam.	Length	Current	Approx. weightn(kg/1000)	VPMD	
(mm)	(mm)	(A)		PC	Code
2.5	300	50-70	18.0	100	W000288090
3.2	350	65-100	33.5	60	W000288091
4.0	350	85-120	50.9	40	W000288092