

TASETO Welding Materials

Stainless Steel Electrodes

For Shielded Metal Arc Welding

RNY430

● Applicable Specification

JIS Z 3221 ES430-16
AWS A5.4 E430-16

● Identification Color

End Face: Brown
Side Face: —

● Applications and Characteristics

TASETO RNY430 is used for welding of 18%Cr steel (Type430). It is also suitable for overlay welding where corrosion resistibility (against nitric acid) and heat resistibility (against oxidizing acids) is required.

RNY430 is a lime-titania type electrode suitable for positional welding.

● Notes on Usage

* Dry the electrode at 150°C to 200°C for 60 minutes before use.

* Keep preheating and interpass temperature at 100°C to 200°C and apply PWHT at 760°C to 785°C at 2h after welding.

● Chemical Composition of All Weld Metal (%)

	C	Si	Mn	P	S	Ni	Cr	Mo	Cu
Typical	0.06	0.31	0.40	0.016	0.010	0.13	17.48	0.19	0.17

● Mechanical Properties of All Weld Metal (PWHT : 780°C × 2h, AC)

	Tensile Strength (MPa)	5D Elongation (%)
Typical	536	23.4

● Other Properties of All Weld Metal (Typical)

* 30% Nitric Acid Test : 1.2 g/m²·h (PWHT : 780°C × 2h, AC)

● Sizes Available, Recommended Currents (AC or DCEP)

Size (mm)	Length (mm)	Welding Current (A)	
		Flat	Vertical, Overhead
3.2	350	80~120	65~110
4.0	400	110~150	85~135
5.0	400	150~200	—