

# TASETO Welding Materials

Stainless Steel Electrodes

For Shielded Metal Arc Welding

## RNY310

### ● Applicable Specification

JIS Z 3221 ES310-16  
AWS A5.4 E310-16

### ● Identification Color

End Face: Pink  
Side Face: —

### ● Applications and Characteristics

TASETO RNY310 is suitable for welding AISI310 or SUS310S.

As RNY310 is specifically designed to reduce the hot cracking susceptibility and embrittlement caused by PWHT, this electrode is also suitable for welding of dissimilar metals where heat treatment is required.

RNY310 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.

\* Avoid excessively high current or wide weaving to prevent hot cracking.

### ● Chemical Composition of All Weld Metal (%)

	C	Si	Mn	P	S	Ni	Cr	Mo	Cu
Typical	0.10	0.41	2.03	0.017	0.003	20.90	26.84	0.09	0.08

### ● Mechanical Properties of All Weld Metal

	Tensile Strength (MPa)	5D Elongation (%)	Absorbed Energy at 20°C (J)
Typical	586	41.2	79

### ● Typical Mechanical Properties of All Weld Metal in Elevated Temperatures

Temperature (°C)	Tensile Strength (MPa)
550	407
650	322
725	256
800	198

### ● Other Properties of All Weld Metal

\* Typical Ferrite Content : 0% (Schaeffler's Diagram)

### ● Sizes Available, Recommended Currents (AC or DCEP)

Size (mm)	Length (mm)	Welding Current (A)	
		Flat	Vertical, Overhead
2.6	300	50~90	45~80
3.2	350	80~120	65~110
4.0	350	110~150	85~135
5.0	350	150~200	—