RNY316

● Applicable Specification

JIS Z 3221 ES316-16
AWS A5.4 E316-16

● Identification Color

End Face: White
Side Face:－

● Applications and Characteristics

TASETO RNY316 provides weld metal with good corrosion resistibility against acetic acid, sulfurous acid, phosphoric acid, and chlorides.
RNY316 is a lime-titania type electrode suitable for positional welding.

● Notes on Usage

* Dry the electrode at 150℃ to 200℃ for 60 minutes before use.
* Use a low current to prevent carbides from precipitating on the heat-affected zone.

● Chemical Composition of All Weld Metal (%)

	C	Si	Mn	P	S	Ni	Cr	Mo	Cu
Typical	0.056	0.59	1.59	0.024	0.006	12.60	19.50	2.30	0.11

● Mechanical Properties of All Weld Metal

	Tensile Strength (MPa)	5D Elongation (%)	Absorbed Energy at 20℃ (J)
Typical	582	40.2	93

● Typical Tensile Strength of All Weld Metal at High Temperature

Temperature (℃)	Tensile Strength (MPa)
550	407
650	336
725	271
850	191

● Typical Creep Rupture Strength of All Weld Metal at High Temperature

650℃×1,000h: 139 MPa

● Other Properties of All Weld Metal

* Typical Ferrite Content : 5.2% (Schaeffler's Diagram)
* Copper Sulfate-Sulfuric Acid Test : No defects after bending
* 5% Sulfuric Acid Test : max. 7 g/m²･h

● Sizes Available, Recommended Welding 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	－