Hishiko Corporation

Welding Consumables Sales Department TEL: +81-49-222-2000 FAX: +81-49-223-1444

weldtech@hishiko.co.jp

Electrode for Surfacing on Various Kinds of Molds (TIG Welding)

N C M - 1 T

■ Tip Color

Red

Application

Welding of marageing steel such as MAS1 and YAG300.

Surfacing on forging die, die-casting mold, cold and hot shear, clutch cam, dies and etc.

NCM-1T is also suitable for welding of special steel.

■ Feature

- 1. NCM-1T is TIG welding electrode of 18% Nickel marageing steel. This shows excellent crack resistance ductility and notch toughness. Also, this has excellent machinability.
- 2. After machining, ageing treatment at $450 \sim 500^{\circ}$ C in $2 \sim 3$ hours gives high hardness, about HV500, to the deposited metal.
- 3. NCM-1T can use for alloy tool steel and high-tensile steel whose tensile strength exceeds 100kgf/mm².

■ Welding Procedure

- 1. In general, preheating at 150°C is required. Special steel requires preheating at 300°C and slow cooling.
- 2. Ageing treatment at more than 600°C is overageing.

■ Typical Chemical Components of the Electrode (%)

С	Si	Mn	Ni	Мо	Со	Al	Ti
≦0.03	≦0.10	≦0.10	18.00~19.00	4.50~5.50	8.50~9.50	0.05~0.15	0.50~1.00

■ Typical Hardness of the Deposited Metal

Conditions	HV	HRC	HS
As Welded	350~400	35~40	48~55
After Ageing Treatment at 500°C in 3hrs	450 ~ 500	45~49	60~66

Dimensions

Diameter (mm)	Length (mm)	Minimum Quantity (Kg)
1.0 1.2 1.6 2.0 2.6 3.2 4.0 5.0	1,000	5