UTP A 2133 Mn		nickel alloys

GIASSINGATIONS	110 100
EN ISO 14343	Material-No.
WZ 21 33 Mn Nb	~ 1.4850

Characteristics and field of use

UTP A 2133 Mn is suitable for joining and surfacing heat resistant base materials of identical and of similar nature, such as

1.4859 G X 10 NiCrNh 32 20 1.4876 X 10 NiCrAlTi 32 21 **UNS N08800** 1.4958 X 5 NiCrAlTi 31 20 **UNS N08810** 1.4959 X 8 NiCrAITI 31 21 UNS N08811

A typical application is the root welding of centrifugally cast pipes in the petrochemical industry for operation temperatures up to 1050 °C in dependence with the atmosphere.

Scale resistant up to 1050 °C. Good resistance to carburising atmosphere.

Typical analysis in % C Si Mn Cr Ni Nb Fe 0.12 0.3 4.5 21.0 1.2 33.0 balance

Mechanical properties of the weld metal

Yield strength R _{p0.2}	Tensile strength R _m	Elongation A	Impact strength K_V
MPa	MPa	%	J [RT]
400	600	20	70

Welding instructions

Clean the weld area thoroughly. Low heat input. Max. interpass temperature 150°C

Approvals

TÜV (No. 10451)

Form of delivery and recommended welding parameters

Rod diameter x length [mm]	Current type	Shielding gas (EN ISO 14175)		
2.0 x 1000	DC (-)	11		
2.4 x 1000	DC (-)	11		
3.2 x 1000	DC (-)	11		