

Classifications						
EN ISO 14343				Material-No.		
GZ 21 33 Mn Nb				~ 1.4850		
Characteristics and field of use						
<p>UTP A 2133 Mn is suitable for joining and surfacing heat resistant base materials of identical and of similar nature, such as</p> <p>1.4859 G X 10 NiCrNb 32 20</p> <p>1.4876 X 10 NiCrAlTi 32 21 UNS N08800</p> <p>1.4958 X 5 NiCrAlTi 31 20 UNS N08810</p> <p>1.4959 X 8 NiCrAlTi 31 21 UNS N08811</p> <p>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.</p> <p>Scale resistant up to 1050 °C. Good resistance to carburising atmosphere.</p>						
Typical analysis in %						
C	Si	Mn	Cr	Ni	Nb	Fe
0.12	0.3	4.5	21.0	33.0	1.2	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
Wire diameter [mm]		Current type			Shielding gas (EN ISO 14175)	
0.8		DC (+)			I 1	
1.0		DC (+)			I 1	
1.2		DC (+)			I 1	