

## Classifications

EN ISO 14343-A	Mat. No.
WZ 22 17 8 4 N L	1.3954

## Characteristics and typical fields of application

Non magnetic; Permeability in field of 800 A/m: 1.01 max. Specially for joining and surfacing work with matching / similar non magnetic CrNiMo(Mn,N) steels/cast steel grades.

Stainless; resistant to intercrystalline corrosion and wet corrosion up to 350 °C (662 °F).

Seawater-resistant.

High toughness at subzero temperatures

## Base materials

1.3948 – X4CrNiMnMoN19-13-8;	1.3951 – X2CrNiMoN22-15;
1.3952 – X2CrNiMoN18-14-3;	1.3953 – X2CrNiMo18-15;
1.3964 – X2CrNiMoNNb21-16-5-3;	1.4439 – X2CrNiMoN17-13-5

## Typical analysis of the TIG rods (wt.-%)

	C	Si	Mn	Cr	Mo	Ni	N
wt-%	0.03	0.7	7.5	22.0	3.6	17.5	0.24

**Structure:** Austenite, no ferrite

## Mechanical properties of all-weld metal

Heat-treatment	Yield strength R <sub>p0.2</sub>	Yield strength R <sub>p1.0</sub>	Tensile strength R <sub>m</sub>	Elongation A (L <sub>0</sub> =5d <sub>0</sub> )	Impact work ISO-V KV J
	MPa	MPa	MPa	%	+20 °C
aw	450	480	680	30	70

## Operating data

Polarity:	Shielding gas:	Marks:	ø (mm)	L mm
DC ( – )	(EN ISO 14175) I1	✦ WZ 22 17 8 4 NL / 1.3954	2.0	1000
			2.4	1000

## Welding instruction

Materials	Preheating	Postweld heat treatment
Matching / similar non magnetic steels / cast steel grades	None	None

## Approvals

GL, WIWEB