

## Classifications

**AWS A5.9 / SFA-5.9**
**EN ISO 18274**

ER383 (mod.)

S Ni 8025 (NiFe30Cr29Mo)

## Characteristics and typical fields of application

TIG rod of S Ni 8025 (NiFe30Cr29Mo) / ER383 (mod.) type. Max. service temperature 450°C. Good corrosion resistance, especially in reducing environment. For joining and surfacing work with matching and similar, unstabilized and stabilized fully austenitic steels and cast steel grades containing Mo (and Cu) and dissimilar welding to unalloyed/low-alloy steels.

## Base materials

1.4465 X1CrNiMoN25-25-2, 1.4563 X1NiCrMoCu31-27-4, 1.4577 X5CrNiMoTi25-25, 2.4858 NiCr21Mo

## Typical analysis

	C	Si	Mn	Cr	Ni	Mo	Fe	Cu
wt.-%	0.02	0.2	2.6	29	Bal.	4.3	30	1.8

Structure: Austenite

## Mechanical properties of all-weld metal - typical values (min. values)

Condition	Yield strength $R_{p0.2}$	Yield strength $R_{p1.0}$	Tensile strength $R_m$	Elongation A ( $L_0=5d_0$ )	Impact energy ISO-V KV J
	MPa	MPa	MPa	%	20°C
u	350	380	550	30	120

u untreated, as-welded

## Operating data

	<b>Polarity</b>	DC-	<b>Dimension mm</b>
	<b>Shielding gas (EN ISO 14175)</b>	I1	
	<b>Rod marking</b>	+ 2.4656	
			2.0 × 1000
			2.4 × 1000
			3.2 × 1000

Weld as cold as possible. Suggested heat input is max. 1.0 kJ/mm and interpass temperature max. 100°C.

Post-weld heat treatment generally not needed. In special cases, solution annealing can be performed at 1120°C.

For dissimilar joints preheating temperature as required by the base material.

## Approvals

TÜV (00118)