

# SANICRO 26MO HIGH STRENGTH FOR WIRELINES WIRE

## DATASHEET

Sanicro® 26Mo is a high-alloy austenitic stainless steel for service in highly corrosive conditions in oil and gas environments. The grade is characterized by:

- Very good resistance to stress corrosion cracking (SCC) in H<sub>2</sub>S, chloride and CO<sub>2</sub> environments
- Very good resistance to pitting in chloride-containing environments because of its high PRE\* value of 43 minimum
- Very good resistance to general corrosion
- High mechanical strength and correspondingly high breaking loads
- Maximum recommended service temperature: 200°C

\* PRE, Pitting Resistance Equivalent = %Cr + 3.3 x %Mo + 16 x %N

### STANDARDS

- UNS: N08926

### CHEMICAL COMPOSITION (NOMINAL) %

C	Si	Mn	P	S	Cr	Ni	Mo	Cu	N
≤0.020	0.4	0.8	≤0.030	≤0.005	20.5	25	6.3	0.8	0.2

### FORMS OF SUPPLY

Sanicro® 26Mo slicklines are supplied cold drawn and degreased in continuous lengths.

#### Slicklines

Diameter		Breaking load		Weight	
mm	in.	N	lbf	kg/1000 m	lb/1000 ft
3.175	0.125	13061	2 936	63.4	42.55

### MECHANICAL PROPERTIES

Sanicro® 26Mo is tested and certified in accordance with a minimum tensile strength. Proof strength is in the range of 85 % of the tensile strength. This means that Sanicro® 26Mo can resist high loads without permanent set of the wire.

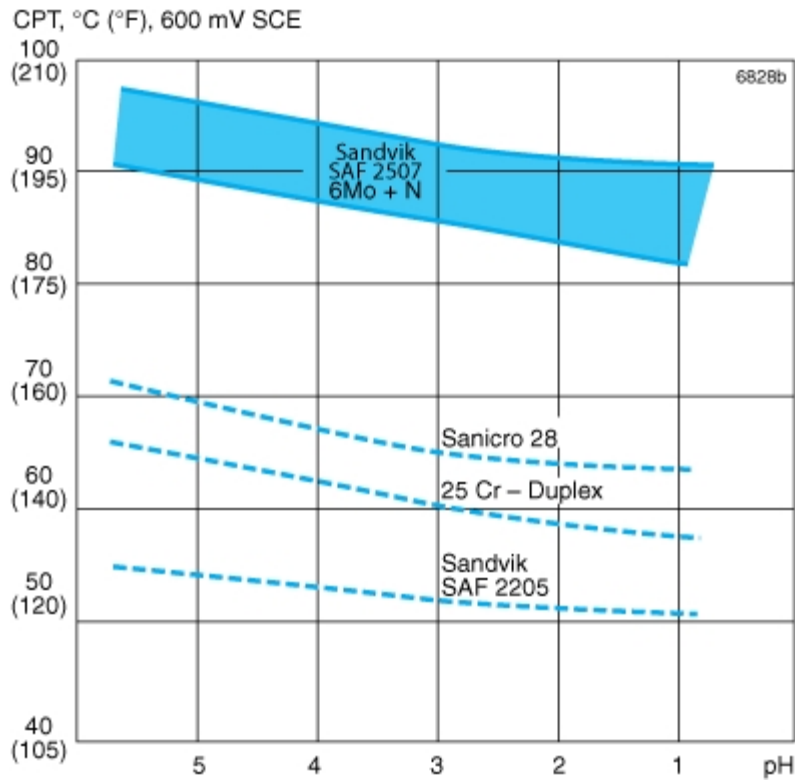
#### Mechanical properties for slicklines, at 20°C (68°F)

Proof strength R <sub>p0.2</sub>		Tensile strength R <sub>m</sub>	
MPa	ksi	MPa	ksi
≥1405	≥204	≥1650	≥239

## CORROSION RESISTANCE

### Pitting

Sanicro® 26Mo can resist very high temperatures in aggressive environments without being attacked by pitting. All stainless steels have a critical pitting temperature above which there is a risk of pitting. Results of laboratory tests of the critical pitting temperature (CPT) for Sanicro® 26Mo and some other stainless steels, as a function of pH values in 3% NaCl solution, is shown in the diagram below.



### Hydrogen sulphide induced corrosion

Sanicro® 26Mo has been specially developed to be resistant in most common well conditions, including H<sub>2</sub>S and CO<sub>2</sub> containing environments.

## PHYSICAL PROPERTIES

Density: 8.0 g/cm<sup>3</sup>, 0.29 lb/in<sup>3</sup>

Thermal expansion: 20 - 100°C, 14 \*10<sup>-6</sup>/°C, 68 - 210°F, 8 \*10<sup>-6</sup>/°F

Thermal conductivity, at 20°C (68°F): 10 W/m °C, 6 Btu/ft h °F

Modulus of elasticity, at 20°C (68°F): 185 000 MPa, 26 800 ksi

Disclaimer: Recommendations are for guidance only, and the suitability of a material for a specific application can be confirmed only when we know the actual service conditions. Continuous development may necessitate changes in technical data without notice. This datasheet is only valid for Sandvik materials.