SANDVIK

SANDVIK 8LR30 BILLETS

数据表

Sandvik 8LR30 is an austenitic, titanium-stabilized stainless chromium-nickel steel. It is suitable for wet-corrosive service but also has good mechanical strength at high temperatures.

STANDARDS

- 321/321H
- S32100
- 1.4541
- 1.4541
- 2337
- 321S31

Product standards

- EN 10088-3
- ASTM A-314

Suitable for production of flanges etc. acc. to ASTM A-182

Certificates

Status according to EN 10 204 3.1

CHEMICAL COMPOSITION (NOMINAL) %

C	Si	Mn	P	S	Cr	Ni	Mo	Others
0.06	0.6	1.5	≤0.040	≤0.030	17.5	9.5	-	Ti>6xC

FORMS OF SUPPLY

Sizes and tolerances

Round-cornered square, as well as round billets, are produced in a wide range of sizes according to the following tables. Larger sizes offered on request.

Surface conditions Square billets

Unground, spot ground or fully ground condition.

Round billets

Peel turned or black condition.

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YueTing alloy
Tel:021-61198229

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Square billets

Size	Tolerance	Length
mm	mm	m
80	+/-2	4 - 6.3
100, 114, 126, 140, 150	+/-3	4 - 6.3
160, 180, 195,200	+/-4	4 - 6.3
>200 - 350	+/-5	3 - 5.3

Sizes and tolerances apply to the rolled/forged condition.

Peel turned round billets

Size	Tolerance	Length
mm	mm	m
75 - 200 (5 mm interval)	+/-1	max 10
>200 - 450	+/-3	3 - 8

Unground round billets

Size	Tolerance	Length
mm	mm	m
77 - 112 (5 mm interval)	+/-2	max 10
124, 134	+/-2	max 10
127, 147, 157	+/-2	max 10
142, 152, 163	+/-2	max 10
168, 178, 188	+/-2	max 10
183, 193	+/-2	max 10

Other products
- Hollow bar
- Welding wire
- Covered electrodes

MECHANICAL PROPERTIES

Testing is performed on separately solution annealed and quenched test piece. The following figures apply to material in the solution annealed and quenched condition.

At 20°C (68°F)

Metric units

Proof strength		Tensile strength	Elong.	Contr.	HB
$R_{p0.2}$ a)	$R_{p1.0}$ a)	R_m	A b)	Z	
MPa	MPa	MPa	%	%	
≥210	≥245	515-700	≥40	≥50	≤215

1 MPa = 1 N/mm2

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a) $R_{p0.2}$ and $R_{p1.0}$ correspond to 0.2% offset and 1.0% offset yield strength respectively.
b) Based on $L_0 = 5.65 \sqrt{S_0}$ where L_0 is the original gauge length and S_0 the original cross-section area.

Impact strength

Due to its austenitic microstructure, Sandvik 8LR30 has very good impact strength both at room temperature and at cryogenic temperatures.

Tests on bar have demonstrated that the steel fulfils the requirements (60 J (44 ft-lb) at -196 °C (-320 °F)) according to the European standards prEN13445-2(UFPV-2) and EN 10272.

At high temperatures

Metric units

Temperature	Proof strength		Tensile strength
	$R_{p.02}$	$R_{p1.0}$	R_m
°C	MPa	MPa	MPa
	min.	min.	min.
100	175	205	440
200	155	185	390
300	135	167	375
400	125	156	375
500	119	149	360

Imperial units

Temperature	Proof strength		Tensile strength
	$R_{p.02}$	$R_{p1.0}$	R_m
°F	ksi	ksi	ksi
	min.	min.	min.
200	25.4	29.7	63.8
400	22.5	26.8	56.6
600	19.6	24.2	54.4
800	18.1	22.5	54.4
1000	17.2	21.6	52.2

免责声明：建议仅供参考，针对特定应用场合的焊材适用性我们需要了解实际服役条件后才能予以确认。因持续研发导致的产品
技术数据更改不会另行通知。该数据表仅适用于山特维克焊材。

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