

LOW CARBON NON-ALLOYED STEEL

SIQUAL 1151 is a low carbon non-alloyed steel which can be carburized or carbonitrided on its surface and subsequently hardened.

SPECIFICATIONS

SIQUAL 1151 is designated as C22E according to EN 10027-1 and as W.Nr. 1.1151, and conforms to the following standard:

- EN 10083-2:2006 Steels for quenching and tempering Part 2: Technical delivery conditions for non-alloy steels
- EN 10132-3:2000 Cold rolled narrow steel strip for heat treatment Technical delivery conditions Part 3: Steels for quenching and tempering

CHEMICAL COMPOSITION

	С	Mn	Si	Р	S	Cr	Ni	Мо
Min. in %	0.17	0.40	-	-	-	-	-	-
Max. in %	0.24	0.70	0.40	0.035	0.035	0.40	0.40	0.10

MECHANICAL PROPERTIES

Hardness in as-rolled condition can be given as informative value.

According to EN 10083-2

Delivery condition	HBW		
Soft annealed (+A)	156		

According to EN 10132-3:2000 - for thicknesses 0.30-3 mm

Delivery condition	R _{eL} (R _{p0.2}) [MPa]	R _m [MPa]	A ₈₀ [%]	HV
Annealed (+A) + Temper rolled (+LC)	max. 400	max. 500	min. 22	155



DIMENSIONS

SIQUAL 1151

	Hot-rolled strip	Hot-rolled sheets	Cold-rolled strip	Cold-rolled sheet	Hot-rolled quarto plates
Thickness [mm]	3–6	3–6	0.3–3	0.5–3	8-*
Width [mm]	100-1000	800-1000	30-1000	1000	1000–2500
Length [mm]	-	2000–6000	-	2000–6000	up to 12000
Internal coil diameter [mm]	610	-	508	-	-

*Max. thickness shall be discussed at the time of inquiry.

TOLERANCES ON DIMENSIONS

- Hot-rolled quarto plates: EN 10029
- Hot-rolled strips/sheets: EN 10051
- Cold-rolled strips/sheets: EN 10131 or EN 10140

SURFACE CONDITION

According to EN 10163-2 or by special agreement.

DELIVERY CONDITION

Hot-rolled strip/sheet		Cold-rolled strip/sheet	Hot-rolled quarto plates		
as-rolled	annealed	spheroidization annealed	as-rolled	annealed	
(+ shot-blasted)	(+ shot-blasted)	+ temper rolled	(+ shot-blasted)	(+ shot-blasted)	

INSPECTION DOCUMENTS

The type of document shall be agreed upon at the time of enquiry and order. A test certificate according to EN 10204/3.1 is issued mandatorily.

The information and data in this product data sheet are intended for informative purpose only and may be revised at any time without notice. Presented typical properties of the materials are described only to help readers make their own evaluations and decisions. They are not guaranteed.

△ SIJ ACRONI d.o.o.

© Cesta Borisa Kidriča 44, 4270 Jesenice, Slovenija, EU

(+386 4 58 41 000

➡ +386 4 58 41 003
➡ uprava@acroni.si
➡ sij.acroni.si

