

SIQUAL[™] 7218

ALLOYED CARBON STEEL

SIQUAL 7218 is alloy special steel generally intended for quenched, austempered and flame or induction hardened machine parts.

SPECIFICATIONS

SIQUAL 7218 is designated as 25CrMo4 according to EN 10027-1 and as W.Nr. 1.7218, and conforms to the following standards:

- EN ISO 683-2:2018 – Heat treatable steels, alloy steels and free cutting steels – Part 2: Alloy steels for quenching and tempering
- EN 10132-3:2000 – Cold-rolled narrow steel strip for heat treatment – Technical delivery conditions – Part 3: Steels for quenching and tempering

CHEMICAL COMPOSITION

	C	Si	Mn	P	S	Cr	Mo	Cu
Min. in %	0.22	0.10	0.60	-	-	0.90	0.15	-
Max. in %	0.29	0.40	0.90	0.025	0.035	1.20	0.30	0.40

MECHANICAL PROPERTIES

According to EN ISO 683-2:2018

Delivery condition	HBW
Soft annealed (+A)	212

For products in as-rolled condition the mechanical properties are not defined.
Any mechanical tests are the subject of agreement during the time of enquiry and order.

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

Delivery condition	R _{p0.2} [MPa]	R _m [MPa]	A ₈₀ [%]	HV
Annealed (+A) / Annealed (+A) + Temper rolled (+LC)	max. 440	max. 580	min. 19	max. 175

DIMENSIONS

	Hot-rolled strip	Hot-rolled sheets	Cold-rolled strip	Cold-rolled sheet	Quarto plates
Thickness [mm]	3–6	3–6	0.3–3	0.5–2	8–*
Width [mm]	100–1000	800–1000	30–1000	1000	1000–2000/2500
Length [mm]	-	2000–6000	-	2000–6000	up to 12000
Internal diameter [mm]	610	-	508	-	-

* Max. thickness of heavy plates is to be agreed 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 (+ shot-blasted)	annealed (+ shot-blasted)	spheroidization annealed + temper rolled	as-rolled (+ shot-blasted)	annealed (+ shot-blasted + painted)

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.