

Description	Cold rolled bright annealed strip steel	En-Norm 1.1231 / C67S	AFNOR C67S	DIN Ck67
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Chemical analysis

C	Si	Mn	P	S	Cr	Mo	Ni
0.65 – 0.73	0.15 – 0.35	0.60 – 0.90	max. 0.025	max. 0.025	max. 0.40	max. 0.10	max. 0.40

Values (weight %). In the interests of homogeneity and consistent processing quality, manufacturing tolerances are within much narrower ranges than those specified in the standard given here.

Usage

For stamped parts (such as spring parts) with subsequent thermal treatment.

Surface Finish

- Cold rolled and bright annealed
- Crack and pore free

Diameter

Thickness	Width
0.10 – 3.00 mm	2.00 – 300 / 300 mm

Width options depend on thickness / other widths ex works.

Diameter tolerances

Thickness tolerances (precision tolerances)

Nominal thickness mm	Tolerance mm
<0.10	± 0.005
0.10 – 0.24	± 0.010
0.25 – 0.59	± 0.015
0.60 – 1.49	± 0.020
1.50 – 2.49	± 0.030
2.50 – 4.00	± 0.035

Width tolerances according to DIN EN ISO 9445

Special tolerances Special thickness and width tolerances can be produced in our service center according to your specifications.

Mechanical properties cold rolled

Cold rolled	Tensile strength	Elongation at break
Strength level	MPa	%
Annealed	max. 580	min. 20
1/4 hard	580 - 680	By result
1/2 hard	630 - 730	By result
3/4 hard	660 - 780	By result
hard	710 - 830	By result

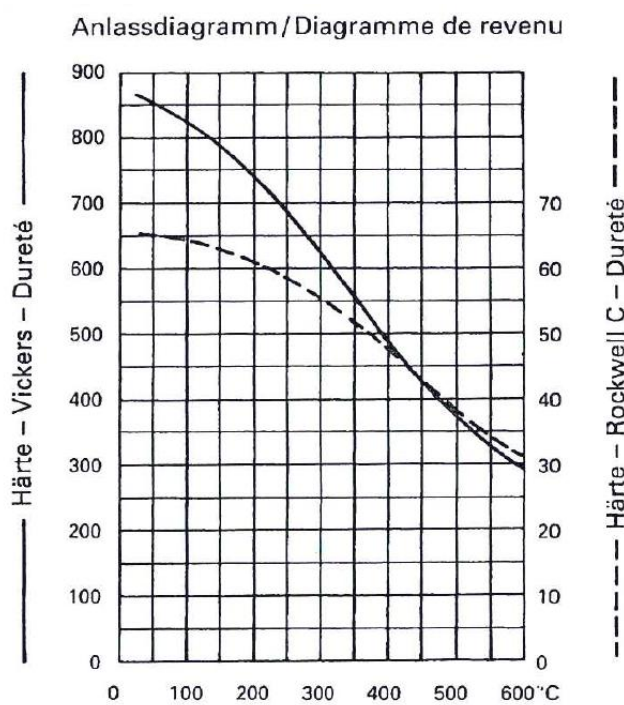
Special strength grades can be manufactured to your specifications in our service center.

Heat Treatment

Soft annealing 650°C - 690°C / 2-4 hours under protective gas (slow cooling)

Hardening Thicknesses up to approx. 1.5mm at 815 - 845°C, quenching in oil
Thicker dimensions at 795 - 825°C, quenching in water

After hardening, temper according to the tempering diagram below.



Note

All information provided in this data sheet is based on the best knowledge and the latest state of the art, but without guarantee. The use of materials should always be discussed with our [sales specialists](#) or our materials [laboratory](#) on a product- and application-specific basis.

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