

Chemical analysis

C%	Si%	Mn%	P%	S%	Cr%	Mo%	Ni%
0.57 - 0.65	max 0.40	0.60 - 0.90	max 0.030	max 0.035	max 0.40	max 0.10	max 0.40

Mechanical Properties (delivery condition - N)

≠ mm	Tensile Strength Rm N/mm ²	Yield Point Rp0.2 N/mm ²	Elong. A5%
≠ ≤ 16	min. 720	min. 390	min. 11
116 < ≠ ≤ 40	min. 700	min. 350	min. 12
40 < ≠ ≤ 80	min. 670	min. 340	min. 12

≠ - nominal thickness in mm

Corresponding standards

A-LINE	EN	DIN 17212	BS	AFNOR	ASTM
A-LINE WHV	C60	C60	60HS	1C60	1060

Chrome Layer:

12±5 µm

Surface Roughness

The surface roughness (Ra) is maximum 0.20 µm.

Chrome layer hardness

The Chrome Layer hardness is 900 HV 0.1 min

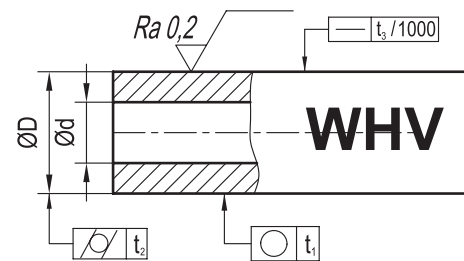
Diameter tolerance

ISO h7 is standard; other tolerances can be supplied upon request.

Tolerance Range according to ISO 286-2 Table for ISO h7 in µm

OD x ID (mm)	upper	lower
12 x 4	0	-18
16 x 7	0	-18
20 x 14	0	-21
25 x 15.6	0	-21
30 x 18.3	0	-21
40 x 28	0	-25
50 x 29.7	0	-25
60 x 36	0	-25





Hardness depth, roundness, parallelism, straightness

Shaft Diameter Outer D (+/- 10%) mm	Shaft Diameter Inner d (+/- 10%) mm	Weigh per metre kg	Shaft part number	Standard length mm	Hardening depth Rht (max) DIN6773 mm	Standard tolerance ISO h7 µm	Roundness (circular) t1 µm	Parallelism (cylindric) t2 µm	Straightness t3 mm/m
12	4.0	0.79	WHV 12	6000	0.6 - 1.3	0/-18	8	12	0.12
14	7.0	0.91	WHV 14	6000	0.6 - 1.3	0/-18	8	12	0.12
16	7.0	1.28	WHV 16	6000	0.6 - 1.6	0/-18	8	12	0.12
20	14.0	1.25	WHV 20	6000	0.9 - 1.6	0/-21	9	12	0.1
25	15.6	2.35	WHV 25	6000	0.9 - 1.8	0/-21	9	12	0.1
30	18.3	3.50	WHV 30	6000	0.9 - 2.0	0/-21	9	12	0.1
40	28.0	4.99	WHV 40	6000	1.5 - 2.5	0/-25	11	15	0.1
50	29.7	9.91	WHV 50	6000	1.5 - 3.0	0/-25	11	15	0.1
60	36.0	14.20	WHV 60	6000	2.2 - 3.0	0/-30	12	15	0.1

Surface Hardness

Steel grade C60: 62±2 HRC

Packaging

Bars are degreased and oiled, placed in bundles that are wrapped in wax paper and raffia.

On request with additional cost

- Wooden boxes



Our products packaging is recyclable

Marking

Each batch has a label showing: manufacturing date, product name, diameter, tolerance range, number of bars, heat No. to facilitate full traceability.

Certifications

ISO 9001	ISO 14001	OHSAS 18001
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