



WINTRADE S.r.l.
CHROME PLATED BARS • STEEL TUBES • SPECIAL STEELS

HSW®44

Free-cutting steel with
high mechanical
properties

According to EN 10088
Corrosion Resistance

ISO 9227 NSS Rating 9 ≥ 200 h

Chemical analysis

C	Mn	Si	P	S	Ni	Nb	Ca
0,42±0,48	1,10±1,65	0,00±0,30	0±0,04	0,14±0,33	0,00±0,30	0,00±0,025	0,00±0,030

Mechanical properties at room temperature

Reduction area Z %	Diameter Ø mm.	Rp0,2 min. N/mm ²	Rm N/mm ²	A min. %	AvRT J	HB30
ap. 30	≤10 10<Ø≤16 16<Ø≤40	685	800 ÷ 950	7	ap. 25	ap. 280

Tolerance: ISO f7

Range: diam. 5 - 100 mm

Surface roughness: Ra - max. 0,20 µm (statistical average 0,05 - 0,15 µm)

Chromium thickness: Ø < 20 mm = min. 15 µm Ø ≥ 20 mm = min. 20 µm

Chromium hardness: min. 900 HV 0,1

General properties and applications

HSW®44 Free-cutting steel combines hardness with tensile strength. The guaranteed proof stress shown a multiple applications.

It can replace a whole range of standard steel (for example 42CrMo4 Q+T).

The main feature is: extraordinary workability that translates into a reduction in costs thanks to the optimization of the productivity, shorter working times and the tools you are using.