

X40Cr14 ESR

W.Nr. 1.2083

Properties

mould steel, corrosion resistant, high cleanliness
enduse = tools for processing corrosive plastics

Chemical composition

C=0,36-0,42	Si=max. 1,00	Mn=max. 1,00	P=max.0,025	S=max.0,008
Cr=12,50-14,50				

DIN EN ISO 4957

Grade equivalents Similar grades

----- BS 420 AISI / SAE	----- GB ----- UNI	Z40C14 AFNOR (2314) SS	SUS420J2 JIS ----- GOST	----- CSN X40Cr13 UNE

General conditions

Heat treatment =+A DIN EN ISO 4957

Hardness max. 240 HB

Surface surface flaws / cracks if any are removed by polishing.
cleaning marks/scale pitting/peripheral decarburisation within
the standard machining allowance is allowed.

US test SEP 1921 group 3, class E/e or
EN 10228-3 quality grade 4, 100% scanning or
specific FBH eq.

Degree of Purity DIN 50 602, K1 max. 30

Microstructure soft annealed / fine - even structure

Hot rolled and/or forged, peeled and/or turned

Ø 10 – 403 mm

Tolerances - 0 / + 0,8 - 4,0 mm (dep. on dia) or specific tol.
Lengths 2,5 - 5,5 m or specific lengths ends of bars are sawn

Hot rolled, black and/or Hot rolled all sides machined

20 - 105 x
90 - 610 mm

Tolerances EN 10058 positiv allowance only or
DIN 50602 positiv allowance only or
specific tol.
Lengths 2,5 - 5,5 m or specific lengths ends of bars are sawn

Hot rolled and/or forged, black Hot rolled and/or forged, black all sides machined

20 x 20 -
300 x 300 mm

Tolerances EN 10059 positiv allowance only or
DIN 7527 / 6 positiv allowance only or
specific tol.
Lengths 2,5 - 5,5 m or specific lengths ends of bars are sawn

Forged, black and/or forged all side machined

100 - 355 x
120 - 1.050 mm

Tolerances DIN 7527 / 6 positiv allowance only or
specific tol. positiv allowance only
Lengths 2,5 - 5,5 m or specific lengths ends of bars are sawn

Test certificate

EN 10204/3.1 with chem. Analysis; hardness HB ; heat treatment ; US test
(copy of original on our letter head !)

- supply range file - issued: 20.02.2009 rev. 1