

55NiCrMoV7

W.Nr. 1.2714

Properties

hot working / die tool steel; high temperature strength, good toughness
enduse = drop forging; forging saddles; extrusion tools; die holders
hot shearing knives

Chemical composition

C=0,50-0,60	Si=0,10-0,40	Mn=0,60-0,90	P=max.0,025	S=max.0,015
Cr=0,80-1,20	Mo=0,35-0,55	Ni=1,50-1,80	V=0,05-0,15	

DIN EN ISO 4957

Grade equivalents Similar grades

----- BS L 6 AISI / SAE	----- GB ----- UNI	----- AFNOR ----- SS	SKT 4 JIS 5ChGNM GOST	19663 CSN F.520 B UNE
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General conditions

Heat treatment =+A DIN EN ISO 4957 ; also available in QT DIN EN ISO 4957

Hardness max. 248 HB : in QT as per agreement !

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 D/d or
EN 10228-3 quality grade 3, 100% scanning or
specific FBH eq.

Degree of Purity DIN 50 602, K4 max. 20

Microstructure soft annealed structure / Ferrite / Carbides

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

Ø 10 – 953 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

10 - 105 x
20 - 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, all sides machined

10 x 10 -
305 x 305

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 - 500 x
120 - 1.250 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