

40CrMnNiMo8-6-4

W.Nr. 1.2738

Properties

mould steel, quenched and tempered, for moulds with bigger thickn./size range
enduse = mould for bumpers, vehicle dashboards, large car body parts;
die casting frames

Chemical composition

C=0,35-0,45	Si=0,20-0,40	Mn=1,30-1,60	P=max.0,025	S=max. 0,010
Cr=1,80-2,10	Mo=0,15-0,25	Ni=0,90-1,20		

DIN EN ISO 4957

Grade equivalents Similar grades

----- BS	----- GB	----- AFNOR	----- JIS	----- CSN
----- AISI / SAE	----- UNI	----- SS	----- GOST	----- UNE

General conditions

Heat treatment =+QT DIN EN ISO 4957

Hardness 280 - 325 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 D/d or
EN 10228-3 quality grade 3, 100% scanning or
specific FBH eq.

Degree of Purity DIN 50 602, K4 max. 20

Microstructue quenched and tempered / fine - even structure

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

Ø 403 – 1.053 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 and/or forged, black Hot rolled and/or forged, all sides machined

300 x 300 mm
1.000 x 1.000 mm

Tolerances 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

150 - 955 x
805 - 1.500 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