



Material-information-sheet

Material-number 1.6580

Material: 30 Cr Ni Mo 8

Steel-group: Alloyed tool steels, Cr-Ni-Mo-steels with < 0,4 % Mo and < 2,0 % Ni

Usage: Tempered steel:
High claimed gadgets used for vehicle- and engine constructions related to hardness, toughness and elasticity.

Cold extruded steels

High claimed components for mechanical engineering, instrument constructions, engine constructions and vehicle constructions

There are different steps (hot-press, cold extrusions, press, widen, pull, with interposed surfaces and annealing treatments) to create these components in different shapes:

- High density,
- A Grain-flow you need for the strain
- Very good surface quality
- High dimensional accuracy

Perfection of application property by using the

- hardness
- ultimate breaking strength
- elastic limit

is made by cold work hardening.

Chemical-composition:

	C	Si	Mn	P	S	Cr	Mo	Ni
Minimum	0,26	0,00	0,50	0,00	0,00	1,80	0,30	1,80
Maximum	0,34	0,40	0,80	0,025	0,035	2,20	0,50	2,20

Heat-treatment

Hot-forming	Soft-annealing (+A)	normal glow	Hardening in-oil	Tempering
850 - 1050 °C	650 - 700 °C	850 – 880 °C	830 - 860 °C	540 - 660 °C

Mechanical-characteristics

Hardness after glowing	$R_m \leq 680 \text{ MPa}$	
Hardness after A -glow	$R_m \leq 790 \text{ MPa}$	
Reduction	$Z \geq 60 \%$	