

Plastic processing

As one of the leading manufacturers of tool steels we offer special steels for high performance plastic processing toolings under the brand name DOMINIAL.

These special products are the result of a close cooperation with our customers and have outstanding features and exceed demanding for the requirements of the modern plastic processing industrie.

Overview of tool steels

Analysis in %

Grade	DIN	C	Si	Mn	Cr	Mo	V	Ni	S	
TQ 1		0,36	0,25	0,40	5,20	1,90	0,55	–	–	
USN/H11	1.2343	0,38	1,00	0,40	5,20	1,30	0,40	–	–	
N400 MST	1.2767	0,45	0,25	0,40	1,35	0,25	–	4,00	–	
CMR	1.2316	0,40	<1,00	<1,00	16,00	1,20	–	<1,00	–	
RF	1.2083	0,42	0,40	0,30	13,00	–	–	–	–	
CRS	1.2085	0,33	<1,00	<1,00	16,00	–	–	<1,00	0,07	

Grade	C	Si	Mn	Cr	Mo	V	Ni	S	Others
Plast 1	0,045	0,40	1,30	12,50	–	–	–	0,15	+

Flexible delivery

Rough forged

- annealed
- heat treated

Premachined

- annealed
- heat treated

Finish machined

- according to your needs



Traditional tool steels and developments of KIND & CO

Plastic processing

The main tool steels

Material	DIN	Corrosion resistance	Polishable	Machinability	Hardness	Nitrable
TQ 1					max. 52-54 HRc	yes
USN ESU 1.2343 H11 ESR					max. 52-54 HRc	yes
USN H11	1.2343				max. 52-54 HRc	yes
N400 MST 1.2767					max. 52-54 HRc	
CMR	1.2316		 ESR		approx. 300 HB ²⁾	
RF	1.2083		 ESR		50-52 HRc	
CRS	1.2085				approx. 300 HB	
Plast 1 ¹⁾					approx. 320 HB ²⁾	

¹⁾ Very good weldability ²⁾ Usually pre-hardened

MORE VALUE

- Innovative tool steels
to guarantee
a solid foundation
- Proprietary nitriding
to optimize wear resistance



- Heat treatment technology
to ensure the highest quality
- Application experience and
machining services
to provide the total package