

Technical data sheet – 30CrMoV9 (1.7707)

- Material with high toughness and wear resistance
- Comparable with nitriding steel 31CrMoV9 (1.8519)

Application: Automotive industry, vehicle and general mechanical engineering, wear resistant components, e.g. screws, bolts, camshafts, crankshafts.

Chemical composition (acc. DIN EN 10205-3: 1999)

mass fraction in %				
30CrMoV9	C [%]	Si [%] max.	Mn [%]	Cr [%]
	0,26 - 0,34	0,40	0,40 - 0,70	2,30 - 2,70
	P [%] max.	S [%] max.	Mo [%]	V [%]
0,035	0,035	0,15 bis 0,25	0,10 bis 0,20	
Ni [%] max.	0,60			

Mechanical properties (DIN EN 10250-3 (07/2022))

Dimensions	Yield stress (Re)	Tensile strength (Rm)	Elongation (A 5,65)	Charpy-V
<=160 mm	>= 700 MPa	>= 900 MPa	>= 12 % (longitudinal) / >= 8 % (transversal)	>= 35 J (longitudinal) / >= 20 J (transversal)
160-330 mm	>= 590 MPa	>= 800 MPa	>= 14 % (longitudinal) / >= 10 % (transversal)	>= 35 J (longitudinal) / >= 20 J (transversal)

ISO 9001: 2015 TÜV NORD certified.