

Technical data sheet – X17CrNiMoV15 (1.4057)

- Alloyed stainless steel

Applications: Components with highest strength in food industry.

Chemical composition (acc. DIN EN 10250-4 (08/2021))

mass fraction in %				
X17CrNiMoV15	C [%]	Si [%]	Mn [%]	Cr [%]
	0,12 – 0,22	≤ 1,00	≤ 1,50	15,00 – 17,00
	P [%] max.	S [%] max.	Mo [%]	Cu [%]
	0,040	0,030	-	-
	Ni [%]	V [%]		
	1,50 – 2,50	-		

ISO 9001: 2015 TÜV NORD certified.

Heat treatment (acc. DIN EN 10250-4 (08/2021))

Forging	800 - 1.100 °C	slow cool down
Annealing	600 - 800 °C	Air
Hardening	1.020 - 1.080 °C	Oil
Tempering 1	580 - 630 °C (QT800)	540 - 600 °C (QT900)
Tempering 2	550 - 650 °C (QT800)	520 - 640 °C (QT900)

Mechanical properties (acc. DIN EN 10250-4 (08/2021))

Dimensions	0,2% Yield strength (Rp0,2)	Tensile strength (Rm)	Elongation (A 5,65)	ISO-V/Charpy-V
<= 250 QT800	>= 600 MPa	<= 800 – 950 MPa	>= 10 % longitudinal	>= 15 J longitudinal
<= 250 QT900	>= 700 MPa	<= 900 – 1.050 MPa	>= 10 % longitudinal	>= 20 J longitudinal

ISO 9001: 2015 TÜV NORD certified.