

# HEAT-RESISTANT CAST STEEL

DESCRIPTION	MATERIAL NO.	NORM	USUAL HEAT TREATMENT CONDITION	MECHANICAL-TECHNOLOGICAL CHARACTERISTICS				IMPACT WORK (ISO-V)	HEAT EXTENSION BETWEEN 20 AND 300°C	USAGE/SPECIAL APPLICATION EXAMPLES	
				0,2-YIELD STRENGTH		TENSILE STRENGTH RM (MPA)	FRACTURE STRAIN A <sub>5</sub> (%)				α (10 <sup>-6</sup> K <sup>-1</sup> )
				20°C	590°C						
G X 20 CrCoMoV 12 21	1.4912		hardened and tempered		≥ 340	780-980	≥ 10		Heat-resistant and pressure-hydrogen-resistant castings for the chemical industry; Rp0.2 at least 340 MPa at 500 ° C		
GS C 25	1.0619	DIN 17245 EN 10213	hardened and tempered	≥ 245		440-590	≥ 22	≥ 27	13,4	Fittings	
G X 22 CrMoV 12 1	1.4931	EN 10213 EN 10293	hardened and tempered	≥ 590	≥ 340	740-880	≥ 15	≥ 21	11,5	Turbine construction; Components that are exposed to rapid temperature changes (temperature shock)	
G X 15 CrNiCo 21 20 20	1.4957	WL 1.4957	cast state or annealed		≥ 250	650-850	≥ 10		15,8	Aviation; Turbine / air vanes; Combustion chambers, valves; up to approx. 730 ° C; for further data see Supplement 1 to 1.4957; scale resistant to high heat resistance: approx. 980 ° C; not rusty	
	1.4971	ASTM A567	oder gegläht								
GS 16 CrMo 4	1.7242		hardened and tempered	≥ 345		540-690	≥ 15			For castings up to max. 530 ° C application temperature; also usable as case hardened steel	
GS 17 CrMo 55	1.7357	EN 10213 EN 10293	hardened and tempered	≥ 315	≥ 180	490-640	≥ 20	≥ 27	13,4	Turbine construction, pressure vessels, steam boiler construction	
GS 17 CrMoV 5 11	1.7706	EN 10213	hardened and tempered	≥ 440	≥ 300	590-780	≥ 15	≥ 27	13,4		