

Metallic Materials

Low alloyed steels for heat treatment

Description	42CrMo4	FN02	FN08
Composition	42CrMo4	Carbonyl iron with 2% nickel	Carbonyl iron with 8% nickel
DIN standard	1.7225	–	–
Properties	heat-treatable	case-hardened	treatable and case-hardened
Applications	Toothing parts, wear-resistant parts		simple components
Yield strength R_p 0.2 [MPa]	> 400	> 170	> 210
Tensile strength R_m [MPa]	> 650	> 380	> 380
Ultimate strain A [%]	> 3	> 3	> 15

Stainless steels

Magnetically soft alloys

Description	P.A.N.A.C.E.A.	17-4PH	FeSi3
Composition	X15 CrMnMoN 17 11 3	X5 CrNiCuNb 17 4	Carbonyl iron with 3% silicon
DIN standard	–	1.4542	1.0884
Properties	non-magnetic, nickel-free	can be hardened, ferromagnetic	–
Applications	Medical technology, dental technology	corrosion resistant components	–
Yield strength R_p 0.2 [MPa]	> 690	> 660	> 300
Tensile strength R_m [MPa]	> 1090	> 950	> 500
Ultimate strain A [%]	> 35	> 6	> 20

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