

Materials



Description	Material no.	Properties	Tensile strength [N/mm <sup>2</sup> ]	Yield strength [N/mm <sup>2</sup> ]
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Non-ferrous metals (Al)

AlCuMgPb AlCuMgPbMgMn	3.1645 2007	Good machinability	ca. 350	ca. 230
AlMgSi1 AlSiMgMn	3.2315 6082	Corrosion-resistant, salt-water resistant, weldable, good for anodizing	ca. 280	ca. 230
AlZnMgCu1,5 AlZn5,5MgCu	3.4365 7075	Extremely high strength, good for anodizing	ca. 510	ca. 440
AlSiMgBi	6026	salt-water resistant, RoHs conform, good for anodizing	ca. 310	ca. 240

Steel (St)

C45	1.0503	Standard	590 - 740	ca. 350
9 SMnPb28 (11Sn30) [bis 100 mm]	1.0718	Good machinability, hardenable to a limited extent	ca. 350	ca. 205
X10CrNiS18 9	1.4305	Rust-resistant, good machinability	500 - 700	

Grey cast iron

GG25	EN-JL 1040	Corrosion-resistant	250 - 350	165
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Description	Trade name	Properties	Tensile strength [N/mm <sup>2</sup> ]
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Plastics

PA6 (polyamide)	Ultramid, Rilsan	high stiffness, chemical resistant	50 - 84
PA12C (cast polyamide)	Lauramid, Hawamid	wear-resistant, hydrolysis resistant	60
POM (polyoxymethylene)	Delrin, Hostaform	Good machinability	55 - 62