

Available materials in the VW concern

R_m – tensile strength, R_{p0.2} – yield strength, A – ductility (elongation)

Material	R _m [N/mm ²]	R _{p0.2} [N/mm ²]	Tvrđost [HV]	A [%]	Poznámka
1.2709	1950	1900	576	2	Martensitic tool steel - precipitation hardenable - for hot work
1.4404	570	470	239	15	Stainless steel - used for the production of parts that require corrosion resistance or resistance to certain acids
AlSi10Mg	315	200	117	3	Aluminum alloy - used for manufacturing parts with thin walls and complex geometry. Silicon and magnesium alloying elements here guarantee high strength and hardness of the part. Suitable application in automotive, aerospace and prototyping industries
CuSn10	500	400	171	5	Copper alloy (bronze)
TiAl6V4	1286	1116	384	8	A light titanium alloy with excellent mechanical properties and a combination of corrosion resistance + biocompatibility. It is used in the space industry and biomedical applications for its properties
Inconel 718	994	702	293	24	A superalloy that is used for the production of refractory components up to 700 °C, which is subsequently used in the energy, aerospace and space industries
Hastelloy X	772	595	248	20	A superalloy that is used for the production of refractory components up to 1200 °C, which is subsequently used in the energy, aerospace and space industries