

Custom 465 Stainless UNS \$46500

Custom 465[®] is a premium melted, martensitic, age-hardenable stainless steel alloy. This material was designed with improved tensile strength, fracture toughness, improved fabricability, and excellent resistance to stress corrosion cracking. It has been used in the medical industry, oil and gas drilling, aerospace components, marine equipment, firearms and hand tools.

Custom 465[®] is a registered trademark of Carpenter Technology Corporation

Physical Properties

Density by Condition	Value - Metric
Annealed/CT	7.81 g/cm ³
Н900	7.82 g/cm ³
H950	7.83 g/cm ³
H1000	7.84 g/cm ³
H1050	7.86 g/cm ³
H1100	7.86 g/cm ³

Mechanical Properties – Condition H950

Property	Value
Yield Strength, MPa (ksi)	1648 (239)
Ultimate Tensile Strength MPa (ksi)	1751 (254)
Elongation	14%
Reduction in Area	0.63
Fracture Toughness	98 (89)
Charpy V-Notch Energy, J (ft-lb)	27 (20)