

CUSTOM 465®



Custom 465 is a workhorse of the medical industry, providing the best combination of corrosion resistance, strength, and toughness of any commercially available material today.



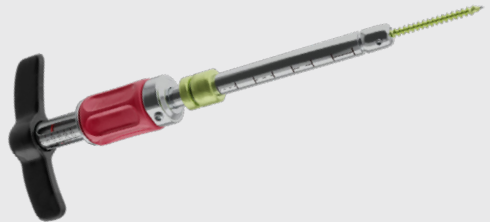
Custom 465 is a premium melted, martensitic, age-hardenable stainless steel capable of ultimate tensile strength in excess of 300 ksi in the cold worked + H900 condition. This next-generation alloy was designed to have excellent yield strength, fracture toughness, and hardness in this condition. **Custom 465 is well-suited for high-strength dental and medical instruments, including torsion drivers, reamers, drills, and needles**, as well as structural aerospace components, drive shafts and other downhole oil drilling tools, and automotive springs and sensors.



Similar alloys: Custom 455®, 13-8 Mo

KEY FEATURES OF CUSTOM 465

- **Corrosion resistance:** The general corrosion resistance of Custom 465 is excellent, approaching that of 304 stainless steel. Exposure to 5% neutral salt spray at 95°F (35°C) caused little or no rusting after 200 hours regardless of condition.
- **High strength:** Custom 465 can achieve hardness up to 55 HRC in the cold worked + H900 condition, providing the necessary strength and wear resistance for cutting and drilling applications.
- **High toughness:** Custom 465's excellent fracture toughness ensures long-lasting, reliable performance during demanding dental and medical applications.
- **Availability:** Carpenter Technology offers Custom 465 to ASTM A564 specifications, cold worked with age treatment. The alloy is also available cold worked, ready for one-step aging treatment.



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Explore Custom 465 in depth, along with our full alloy portfolio
CarpenterTechnology.com/Alloy-Finder

