

BESTAR	Material No.	Grade	AISI	JIS
BE4116+	1.4116+C+N	X60CrMoVN15	n/a	n/a

Chemical Composition [%]

STAINLESS STEEL

C	Si	Mn	Cr	Mo	V	N
0.60	0.50	0.50	14.5	0.65	0.15	0.075

Characteristics

Distinguished by its superior corrosion resistance and an array of top-notch attributes, the regular BE4116 already stands out as a remarkable stainless steel alloy. This material is characterized by its toughness, hardness, edge retention, and wear resistance, in addition to its exceptional corrosion resistance.

Our BE4116 stainless steel is not only the choice for kitchen knives but also finds widespread application in the manufacture of surgical tools and scalpels, as well as in fishing, angling, or diving knives.

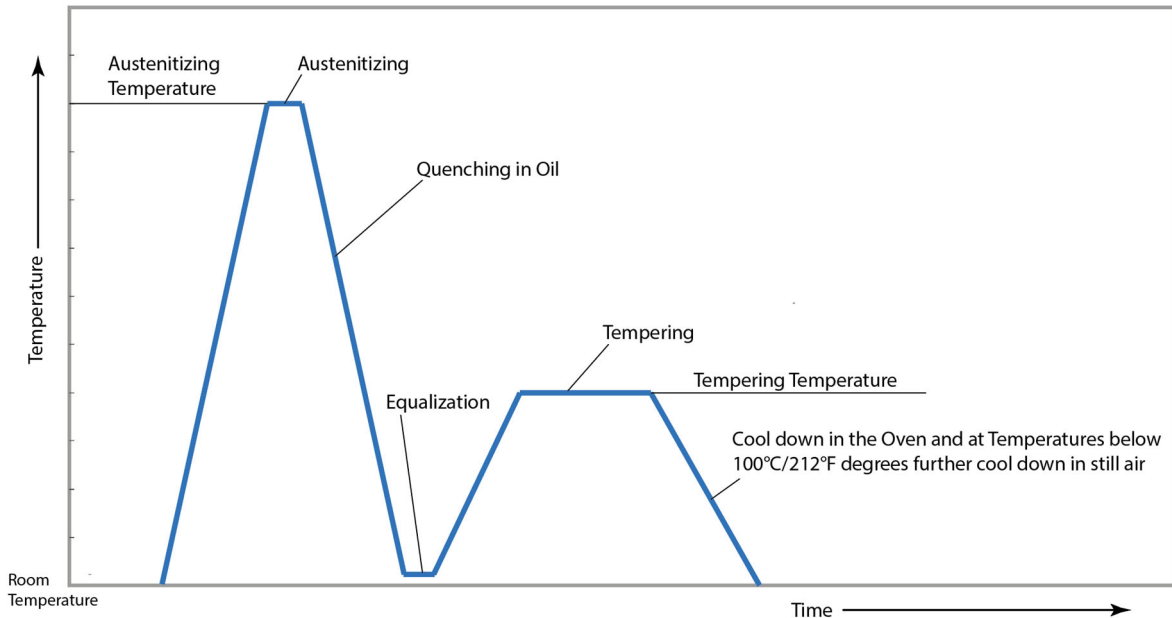
Our BE4116+ is a further development. With a slightly increased carbon content and added nitrogen, BE4116+ focuses on enhancing hardness, resulting in improved edge retention. Additionally, the already great corrosion resistance is further increased.

Applications

- Kitchen Knives
- Fishing Knives
- Angling Knives
- Diving Knives
- Scalpels
- Surgical Instruments



Heat Treatment



Hardening, Tempering, Annealing

(1) Annealing

- 750-800°C / 1380-1470°F

(2) Stress relieving

- ~650°C / ~1200°F

(3) Hardening

- Austenitizing Temperature: 1020-1070°C / 1870-1960°F
- Quenching Medium: Oil

(4) Tempering

- 100-200°C / 210-390°F
- Slow heating to tempering temperature immediately after hardening
- Time in furnace minimum 2 hours
- Cooling in the furnace until the temperatures have fallen below 100°C / 210°F



Delivery Options

HOT / COLD ROLLED SHEETS

- Soft Annealed
- Hardened and Tempered

DISCS

- Laser Cut
- Hardened and Tempered
- Ground Surface

We will not assume any responsibility for the correctness of the information provided in this data sheet. The data sheet is intended only for informational purposes. All information, particularly chemical composition, is subject to change without prior notice. Applications mentioned are solely meant to be a reference. We do not certify the grade's suitability for any application. International and German standards may vary in their chemical analysis.

