

Cartridge Brass C26000 — Material Data Sheet

ASTM F468 / F467 fasteners · ASTM B36 / B927 · UNS C26000 · Cartridge brass, 70-30 (Alloy 260)

Single-phase 70 Cu – 30 Zn alpha brass with the best cold formability of the brasses

The 70-30 brass for cold-headed and formed hardware — 60 to 90 ksi as a fastener under F468, with deep-drawing ductility.

TENSILE, F468 FULL SIZE	60–90 ksi	NUT PROOF STRESS, F467	60 ksi hex · 65 heavy hex
YIELD, F468	50 ksi min	COLD FORMABILITY	Excellent
HARDNESS, F468	55–80 HRB	MAGNETIC	No

Nominal composition

■ Cu balance ~ 99.9% ■ Fe, Pb trace

Midpoints of the specification ranges, for orientation only. Limits are in the table.

Chemical composition — C26000 per ASTM F468 Table 1

Element	Symbol	Min %	Max %
Copper	Cu	68.5	71.5
Iron	Fe	—	0.05
Lead	Pb	—	0.07
Zinc	Zn	balance	—

Values per ASTM F468-23 Table 1 (verified against the specification). Confirm the edition called out on your purchase order with our estimating team.

Physical properties (typical)

DENSITY	0.308 lb/in ³
MAGNETIC	No
SPARKING	Non-sparking

Heat treatment

Not heat treatable. Strength comes from cold work; formed parts may be stress relieved at low temperature to prevent season cracking.

Fastener mechanical properties per ASTM F468 Table 2 (marking F468AB)

Nominal diameter (in.)	Hardness	Full-size tensile (ksi)	Full-size yield, min (ksi)	Machined tensile, min (ksi)	Machined yield, min (ksi)	Elongation in 4D, min (%)
All sizes	55–80 HRB	60–90	50	55	50	35

Values per ASTM F468-23 Table 2 (verified against the specification). Confirm the edition called out on your purchase order with our estimating team. Full-size tensile range and yield; machined-specimen minimums in the last three columns.

Nut requirements per ASTM F467 Table 2 (marking F467AB)

Nut style	Hardness, min	Proof stress, min (ksi)
Hex and hex flange	55 HRF	60
Heavy hex, large hex flange and thick	55 HRF	65

Values per ASTM F467-24 Table 2 (verified against the specification). Confirm the edition called out on your purchase order with our estimating team.

Applicable standards

ASTM F468 / F468M	Nonferrous bolts, cap screws and studs (Cu 260, F468AB)
ASTM F467 / F467M	Nonferrous nuts (Cu 260, F467AB)
ASTM B36 / B36M	Brass plate, sheet, strip and rolled bar
ASTM B927 / B927M	Brass rod, bar and shapes

Forms we supply in C26000 Brass

- Cold-headed screws, rivets and studs to F468
- Nuts to F467
- Formed and machined brass hardware
- Electrical and decorative components

Typical applications

- Electrical hardware and terminals
- Cold-headed brass screws and rivets
- Decorative and architectural fasteners
- Lamp, plumbing and radiator components
- Ammunition and drawn parts