

specialty

nameplate & mfg. inc.

CoreTight™
PRECISION METAL BANDING & SEALS

PRODUCT FAMILY DATASHEET

STAINLESS STEEL BANDING STRAPS

Type 304 & 316 Stainless · ASTM A240 / AMS 5513



SELF-DISPENSING CARTON

MADE IN THE USA

DFARS COMPLIANT

RoHS 3 / REACH

WOSB CERTIFIED

STAINLESS STEEL BANDING STRAPS

Type 304 & 316 Stainless · ASTM A240 / AMS 5513

1 Product Description

CoreTight™ stainless steel banding straps are precision metal strapping used to mechanically retain magnetic-component assemblies — C-core and cut-core transformers, inductors, reactors, and stacked magnetic or electronic assemblies. Applied with a pneumatic tensioning tool and secured with a matching formed seal, the strap holds controlled circumferential compression on the core stack.

Stainless is selected for corrosion resistance and high-temperature service. Type 304 covers industrial and elevated-temperature use; Type 316, with added molybdenum, is preferred for marine and chloride-exposed environments.

2 Material & Metallurgy

Alloys	Type 304 and Type 316 austenitic stainless steel
Governing material spec	ASTM A240 / AMS 5513
Condition	Cold-rolled strip
Finish	Bare (passivated) — no defined shelf life

Typical properties (representative per ASTM A240; actual results on the material certification supplied with each lot):

Property	Typical value
Nominal composition — 304	Cr 18–20%, Ni 8–10.5%
Nominal composition — 316	Cr 16–18%, Ni 10–14%, Mo 2–3%
Tensile strength	≥ 75 ksi (515 MPa), typical
Yield strength (0.2%)	≥ 30 ksi (205 MPa), typical
Elongation (2 in.)	≥ 40%, typical
Service temperature	To ~870°C
Density	0.289 lb/in ³ (304) · 0.290 lb/in ³ (316)

3 Dimensions & Available Sizes

Part Number	Legacy	Type	Thick.	Width	Roll Length
SS-006-187	1D	304	0.006"	0.187"	300 ft
SS-012-187	4D	304	0.012"	0.187"	300 ft
SS-006-375	2D	304	0.006"	0.375"	300 ft
SS-010-375	—	304	0.010"	0.375"	300 ft (box)
SS-012-375	5D	304	0.012"	0.375"	300 ft
SS-012-500	6D	304	0.012"	0.500"	200 ft
SS-015-375	7D	304	0.015"	0.375"	200 ft
SS-020-375	8D	304	0.020"	0.375"	200 ft
SS304-020-500	9D	304	0.020"	0.500"	200 ft
SS316-020-500	9D316	316	0.020"	0.500"	200 ft

Tolerances: width $\pm 0.005"$ · thickness $\pm 0.001"$ ($\leq 0.015"$), $\pm 0.002"$ ($0.020"$). SS-010-375 supplied in a self-dispensing box. Custom sizes available on request.

4 Finish

Supplied bare with a passive stainless surface. No plated coating is applied; stainless carries no defined shelf life under normal storage.

5 Compliance & Traceability

Country of origin	Made in the USA — Hubbard, OH
Regulatory	RoHS 3 compliant · REACH screened (253 SVHC) · WEEE · Conflict Minerals addressed
Defense / trade	DFARS 252.225-7014 specialty-metals exempt (commercial item) · ECCN EAR99
Federal identifiers	CAGE 8GNP1 · DLA NSN 5935-01-451-1377 · JCP / DD-2345 · CMMC Level 1
Quality system	QM001 Rev E (ISO 9001-based)
Business status	WOSB · WBENC certified
Traceability	Certificate of Conformance and mill / heat certifications available with shipment; lot-controlled to aerospace and defense requirements.

6 Packaging

Supplied as coils in self-dispensing cartons (SS-010-375 in a self-dispensing box), each labeled with part number, dimensions, type, and lot identification.

7 Ordering Information & Notes

- Part numbers follow [Material]–[Thickness]–[Width]; stainless straps carry the SS (304) or SS316 prefix.
- Full engineering drawings available upon request.
- Custom sizes, seals, and pneumatic / manual tooling available.

The customer is responsible for determining the suitability of the product for its application and assumes all risk resulting from its use. Properties stated are typical for the alloy and condition and are provided for reference only; refer to the material certification supplied with each lot for actual values. All documents substantiating origin, materials, and processes are maintained on file.