



STAINLESS STEEL PRODUCT DATA SHEET

Stainless-Steel Roll Jacketing is manufactured from AISI-304, AISI-304L, AISI-316 AND AISI-316L prime grade Austenitic stainless steel with regular 2B finish for flatness and reduced glare. The yield strength is 30,000/45,000 PSI, the tensile 75,000/100,000 PSI. For easy field fabrication, Stainless Steel Jacketing is supplied in the annealed or soft condition. AISI-304 AND AISI-304L is normally used except in the most corrosive areas where AISI-316 AND AISI-316L is justified. All AISI-304, AISI-304L, AISI-316 AND AISI-316L Stainless steel are described in ASTM A-240.

Stainless Steel Jacketing has a melting point of approximately 2500°F Stainless Steel offers the best fire protection of all metals used for metal jacketing.

THICKNESS

010", 016", 020", 024", 032", 040", 050"

WIDTH AND DESCRIPTION

Rolls and flat sheets 24" through 48", 1/4 and 3/4" deep
Corrugated sheets – 33", 4" x 1" Box Rib – 28", 38-1/2"

FINISH

Stainless Steel jacketing is available in several finishes, which include smooth, stucco embossed, and in the lighter gauges, 3/16" corrugated. The stucco embossed finish on Stainless Steel Jacketing reduces glare from sunlight, adds strength and has more potential for masking application fingerprints, scratches, dents and other minor surface blemishes.

Stainless Steel jacketing is also available in smooth, light grey Fluoride coating (PVF/PVDF), and in the lighter gauges, 3/16" corrugated. Fluoride coating process details are available on request.

MOISTURE BARRIER

For increased galvanic and corrosion protection, Stainless Steel jacketing can be supplied with a moisture barrier, with an integral, continuously heat sealed Polysurlyn moisture barrier heat and pressure bonded to the interior surface. Polysurlyn shall be a 3.0 mil (76.2 µm) coextrusion of Dupont's Surlyn and polyethylene. This moisture barrier prevents galvanic corrosion caused by contact of dissimilar metals in the presence of moisture, and also chemical corrosion caused by contact of dissimilar metals in the presence of moisture, and also chemical corrosion caused by certain insulation materials when the sheets are installed over damp insulation materials.

Polykraft is also available as a moisture barrier if specified in place of Polysurlyn.

APPLICATIONS

The primary use of Stainless Steel sheet and jacketing is for hostile environments such as the pulp, paper, textile, refinery and Petro-Chemical applications.

STAINLESS STEEL CHARACTERISTICS

AISI-304: Most widely used steel type. 304 is known for good corrosion resistance, thermal resistance, low-temperature strength and mechanical properties. 304 have good draw ability such as deep drawing and bending. 304 is not hardened by heat treatment. (non-magnetic, usable temperature: -196~800°C)

AISI-316: Excellent corrosion resistance, pitting corrosion resistance and high temperature strength by adding Mo. Useful in severe/harsh conditions. Excellent work hardening (non-magnetic).

AISI-316L: Low carbon steel type. Has the normal properties of 316 plus excellent inter-granular corrosion resistance.

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