

SELF-AMALGAMATING INNER TAPE FOR PIPELINES & FITTINGS

Description

Denso S43 is an integral component of the Denso Butyl Tape System. Which comprises:

- Denso Butyl Primer
- Denso Butyl Mastic Strip
- Denso S43 Self-amalgamating Innerwrap
- Denso R23 Amalgamation Outerwrap

The Denso Butyl Tape System is designed for line pipe, joints, welds, bends and fittings.



Surface Preparation:

Steel -St2 / AS1627 P.2 (minimum).
Factory applied coatings -Edges should be chamfered to remove step down.
Approx 100mm band of factory coating should be abraded and solvent (xylene) degreased either side of the joint.

Primer:

Denso Butyl Primer should be applied to the prepared substrate at a rate of 5m²/ltr and allowed to tack dry.

Profiling:

Denso Butyl Mastic Strip should be used to contour weld beads and step down on shop coating (where applicable).

Innerwrap:

Denso S43 should be applied with the Denso Handwrapping Machine with a 55% overlap.

Outerwrap:

Denso R23 Outerwrap is an integral part of the system providing mechanical protection. It should be applied with the Denso Handwrapping Machine with a 25mm or 55% overlap (as specified).

S43 INNER TAPE

TECHNICAL DATA

Recommended temperatures

Application temperature: From -40°C to +60°C
Continuous temperature: From -60°C to +85°C
Peak temperature: Up to +85°C

Roll dimensions

Length: 15 metres
Width: 30mm, 50mm, 100mm, 150mm

Test	Test Method	Value
Total thickness	ASTM D1000	≥ 0.76mm
Adhesive thickness	ASTM D1000	≥ 0.48mm
Backing thickness	ASTM D1000	≥ 0.28mm
Tensile strength	DIN EN 12068	≥ 5.0 N/mm
Tear resistance	DIN EN 12068	≥ 60 N/mm
Shear resistance	DIN EN 12068	≥ 1.2 N/cm ²
Elongation at break	DIN EN 12068	≥ 300 %
Primed Adhesion at 23°C to steel Steel: Hand cleaned to St2 Steel: blast cleaned to Sa2½	DIN EN 12068	≥ 2.0 N/mm ≥ 2.0 N/mm ≥ 2.5 N/mm
Adhesion S43 / S43 at 23°C	DIN EN 12068	≥ 1.6 N/mm
Adhesion R23 / S43 at 23°C	DIN EN 12068	≥ 2.0 N/mm
Adhesion with primer To mill coatings	DIN EN 12068	On PE 2.0 N/mm On Bitumen 1.0 N/mm
Impact resistance	DIN EN 12068	≥ 15 Joule
Water absorption	DIN 53495	≤ 0.1 %
Water vapour transmission	DIN 53122	< 0.2 g/m ² .24hr
Resistance to hydrocarbons(**) Aromatics Aliphatics Resistance to acids and alkali	ASTM G20	Good Excellent Excellent
Coating resistance to cathodic disbonding	DIN EN 12068 (ASTM G8)	≤ 13mm Group A

(**) Not in permanent solution



Approved Quality Management System
 AS/NZS ISO 9001:2008
 Lloyds Register – Certificate Nº Mel 0927759



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