

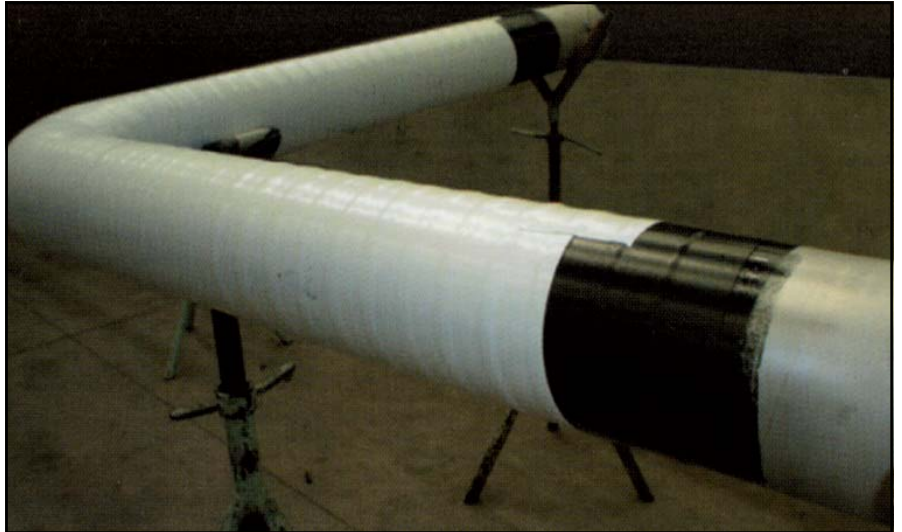
## AMALGAMATING OUTER TAPE FOR PIPELINES & FITTINGS

### Description

Denso R23 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 5m<sup>2</sup>/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).

# R23 OUTER 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:** 30 metres  
**Width:** 30mm, 50mm, 100mm, 150mm

Test	Test Method	Value
Total thickness	ASTM D1000	≥ 0.50mm
Adhesive thickness	ASTM D1000	≥ 0.20mm
Backing thickness	ASTM D1000	≥ 0.30mm
Breaking strength	DIN EN 12068	≥ 5.0 N/mm
Tear resistance	DIN 53515	≥ 55 N/mm
Elongation at break	DIN EN 12068	≥ 400 %
Insulation Resistance	ASTM D257	≥ 10 <sup>9</sup> M Ω
Adhesion R23 / R23 at 23°C	DIN EN 12068	≥ 0.5 N/mm
Adhesion R23 / S43 at 23°C	DIN EN 12068	≥ 2.0 N/mm
Dielectric strength	DIN 53481	≥ 25 KV/mm
Water absorption	DIN 53495	≤ 0.1 %
Water vapour transmission rate	DIN 53496	< 0.2 g/m <sup>2</sup> .24hr
Resistance to hydrocarbons(**) Aromatics Aliphatics Resistance to acids and alkali	ASTM G20	Good Excellent Excellent

(\*\*) Not in permanent solution



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



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