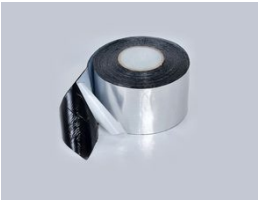


TDS 14 · PROTECTIVE OUTER WRAP SYSTEMS

Aluminium Foil Outer Wrap Tape

Aluminium foil tape · UV-resistant sealing tape



SYSTEM ROLE · OUTER WRAP

Reflective UV- and weather-resistant outer layer for exposed assets.

Product description

A cold-applied outer wrap built on a toughened aluminium-plastic composite foil backing with a mesh damping fabric interlayer, coated with a polyisobutylene-modified butyl rubber adhesive and protected by a release film. The reflective backing returns solar radiation and blocks ultraviolet attack, protecting the primary corrosion protection layer from thermal ageing and softening.

Typical system configuration



Zhuohuang systems are modular. The configuration above is typical for this product; components are added or omitted according to substrate condition, geometry, operating environment and project specification.

ALSO USED AS A PROTECTIVE OUTER WRAP

The aluminium foil wrap is one of three outer wrap options. It is the reflective choice for above-ground and sunlit assets; for buried service, PE or PP fibre-reinforced tape is normally selected instead.

KEY CHARACTERISTICS

- Reflective surface – UV and solar heat protection
- Strong adhesion, sealing and water resistance
- Cold applied with no heating equipment
- Clean, maintainable finished appearance

TYPICAL APPLICATIONS

- Above-ground pipelines, fittings and tower shells
- Exposed valves, flanges and process equipment
- Industrial steel assets in direct sunlight
- Weather sealing of profiled steel roof seams

WHY IT MATTERS

Feature	What it means on site
Reflective backing	Returns solar radiation so the primary corrosion layer underneath is not thermally aged, which is the usual failure route on above-ground assets.
3 000 h UV and 3 000 h salt spray	Independent evidence for outdoor service rather than a general claim of weather resistance.
Cold applied over any compatible system	One outer wrap solution for petrolatum, wax and viscoelastic systems on exposed steel.

TYPICAL APPLICATIONS – FIELD PHOTOGRAPHS



Exposed pipe rack



Above-ground pipework



Process plant in direct sun

Technical properties

Property	Typical / standard value	Test method
Model reference	LW109B	—
Product form	Aluminium-plastic composite tape	—
Colour	Silver	—
Thickness range	1.0–2.0 mm	—
Widths	100 / 150 / 200 mm	—
Roll length	10 m	—
Application	Cold applied; no heating	—

Values are typical or standard configurations for the grade described and are not universal acceptance limits. Where a property is not listed, it is not declared for this grade in the source technical documentation. Confirm the applicable grade and project acceptance criteria before order.

Sizes and packaging

Packaging confirmed at order stage.

Third-party verification

INDEPENDENT LABORATORY TEST	
Report number	CBT30406071071
Laboratory	Guangdong Baotong Quality Testing Co., Ltd. (CBT)
Accreditation	Accredited testing laboratory
Sample tested	UV-Resistant Sealing Anti-Corrosion Tape (Aluminium Foil Outer Wrap)
Test basis	SY/T 0414-2017 Technical standard for polyethylene tape coatings of steel pipelines; JC/T 942-2004 Butyl rubber waterproof sealing tape
Date of issue	30 March 2026
Conclusion	All tested items comply with the requirements of the test basis. Overall result: Pass.
This report was issued on this product.	

The full report is available on request. A faithful English transcription is issued as a separate single-product file and in the compilation Zhuohuang Test Reports – English Compilation. A test report records the properties measured on the sample submitted; it is a test result, not a system certification.

Application

Step	Procedure
01	Confirm compatibility and completion of the underlying primary corrosion protection system.
02	Ensure the outer surface of the primary system is clean, smooth and free of loose material.
03	Remove the release liner progressively as the tape is applied.
04	Wrap with the specified overlap and firm pressure so that the adhesive is fully consolidated.
05	Seal termination points and inspect all seams and edges.

STORAGE Store sealed in the original packaging in a cool, dry, ventilated place, away from direct sunlight, open flame, strong heat, strong oxidising agents and sources of ignition. Keep clear of contamination. Unopened material can be stored long-term at ambient temperature.	HEALTH AND SAFETY The products in this range are not classified as dangerous goods for supply. Wear grease-resistant gloves and avoid contact with the eyes. Wash hands with soap and water after handling. Combustion releases carbon monoxide and hydrocarbon by-products. Consult the product safety data sheet before use; it is supplied on request.
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WASTE

Avoid or minimise waste wherever possible. Do not discard waste material, including packaging, in the surrounding environment. Follow all applicable disposal legislation.

DISCLAIMER

The information in this document is based on Zhuohuang product records, manufacturer data and third-party test reports available at the date of issue. Values are typical or standard configurations and are not universal acceptance limits. Product performance depends on substrate condition, surface preparation, geometry, operating temperature and exposure. Confirm the applicable grade, current packaging, project acceptance criteria and the relevant safety data sheet before order and application.

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