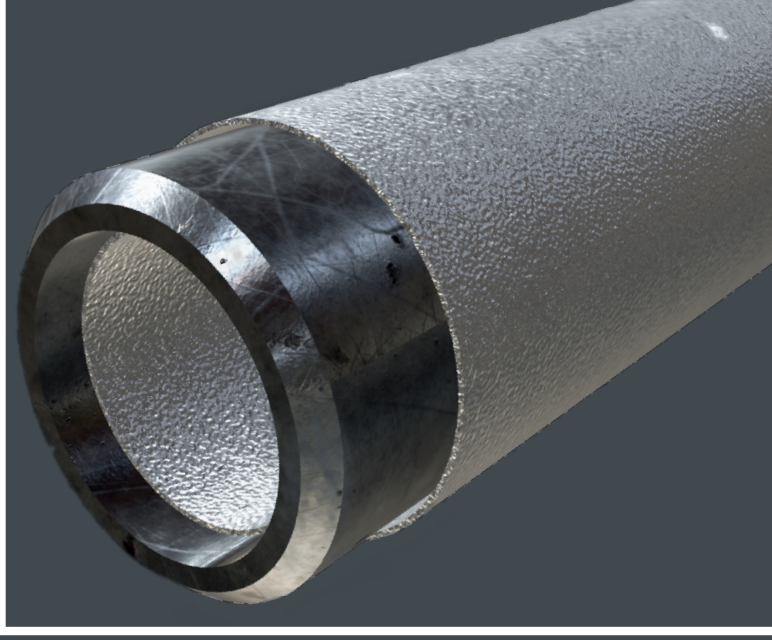




Verniciatura Industriale Pesarese

Coating Services  
Solutions against time



# TSC THERMAL SPRAY COATING

V.I.P. Pesaro is able to offer electric arc, Thermal Spray Coating. Metal insert can be applied without sealant guaranteeing excellent anticorrosive protection. Both sealed or painted can be used in any type of environment, thanks to coating characteristics.

- Thermal Spray Zinc
- Thermal Spray Aluminum
- Thermal Spray Zinc/Aluminum

## Long-lasting protection



- Very flexible process applicable to pieces without limitations in quantity, size and weight.
- Surface heating limitation in order not to alter the characteristics of treated product.
- Can be applied in factory as well on worksite using suitable equipments.
- Ensures higher anticorrosive protection in comparison with any other protective system.
- Possibility of carrying out restorations and/or repairs on hot galvanized surfaces.
- Very long-lasting coating even in highly aggressive environments.
- Flame spray and thermal spray.

## Coatings with sealant



Sealed metallization offers a range of long-lasting coatings even in highly aggressive environments. It is normally used for off-shore applications.

### Main advantages:

- Excellent mechanical properties.
- High anti-corrosive properties.
- Applicable in various thicknesses using several metals having completely different characteristics.

## Coating without sealant



The metal insert without sealant is used to meet a variety of requirements concerning pipeline protection. Coating with zinc wire can be used as an alternative to hot galvanising.

### Main advantages:

- Excellent mechanical properties and resistance to corrosion.
- Anticorrosive protection even when damaged.
- High resistance to high temperatures.
- Applicable without size restrictions.

## Application

- External coating
- Internal lining

## Applicability - Limitless amount

- SMALL AND LARGE PIPES
- STANDARD FITTINGS
- BENDS
- FLANGES
- CUSTOM PIECES
- BUCKLE ARRESTORS
- FIELD JOINTS
- TANK
- WATERWORKS COMPONENTS
- STEEL STRUCTURES
- VALVES

## Inspection & Testing

In our internal laboratory, we perform all the tests and inspections during all the project's phases, carried out with NACE certified staff.

## Chemical composition

**TSZn** : Zinc 99,995%

**TSAL 99.0Cu** : Aluminium 99,0% min.

**TSAL** : Aluminium 99,5% min.

**TSZn/Al** : 85% Zinc (purity 99,995%)  
+ 15% Aluminium (purezza 99,70%)

## Coating capacity

### PIPES

**Diameter** from 1/2" to 120"

Maximum unit **length** 13,5 meters

Maximum unit **weight** 15,000 kg

### JOINTS AND/OR CUSTOM PIECES

(Bends, tees, reducers, flanges, etc.)

Maximum **size** 3.0 x 3.0 x 13.5 meters

Maximum **unit weight** 15,000 kg

Maximum **thickness** of the coating 3,5 mm



# TSC PRODUCTION PROCESS

## METALLIZATION

Application by spray of a metal coating to another metallic or non-metallic surface

## SURFACE PREPARATION

The steel surface is thoroughly cleaned and blasted

## COATING

## SHIPMENT PREPARATION

Final inspection is carried out in our internal laboratory when the goods are fully produced. Then packed and in all respects ready for shipment

## LINING



## GENERAL TESTING

These are merely approximate values adjustable according to clients' requirements.

PROPERTY	TEST DESCRIPTION	TYPICAL VALUES
Adhesion	EN ISO 2063	<b>TSZn:</b> 4,82 MPa (700 psi); <b>TSAl99:</b> 13,78 MPa (2000 psi)
	EN ISO 2063	<b>TSAl:</b> 13,78 MPa (2000 psi); <b>TSZn/Al:</b> 8,25 MPa (1205 psi)
Hardness	EN ISO 2063	<b>TSZn:</b> 143 Knoop 100, 12-15HB;
	EN ISO 2063	<b>TSAl99:</b> 55 Knoop 100, 25-30HB;
	EN ISO 2063	<b>TSAl:</b> 55 Knoop 100, 25-30HB; <b>TSZn/Al:</b> 15-20HB



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