

# PRODUCT DATASHEET

## Endurance® Pipe Identification Tape - External Grade



This is a multipage document, all pages must be read in conjunction with each other

### Background

Silver Fox Endurance® External Pipe ID Tape is made for critical applications in demanding environments. Longer life means less maintenance costs.

To verify how it performs under duress, it has then been independently tested for a range of demanding situations. Tests include:



### H<sub>2</sub>S

Where H<sub>2</sub>S is present, plastics will tend to turn brown. In the oil and gas industry, where it is also a significant health and safety issue, personal exposure is limited to 10 parts per million (ppm) in an 8 hour shift. Endurance® has been successfully independently tested for 20,000 ppm for 7 days.

### UV Weathering

To assess Endurance® pipe identification tape for external use, it has been successfully independently tested for accelerated UV weathering according to ISO 4982 Part 3 Method A Cycle 1.

32 different colours, covering the most used shades were tested for 6500 hours. As a guide, this might be equivalent to approximately 9.75 - 13 years external use in Northern European conditions.

### Salt Mist spray

Endurance® tape is often used in or around marine areas. It therefore makes sense to undertake independent testing. Endurance tape has been successfully tested for salt mist spray according for Lloyds Register Type Approval Test Specification No1, July 2013, Section 16, generally as IEC60068-2-52 Test Kb Salt Mist (Cyclic) Severity 1 and using marine environment simulation solution.

### Colours & Marking

Colours & marking used are taken from the BS 1710 (BS 4800 colours) and ISO 14726 standards.

We can also produce tape with any colour or marking to your requirements.

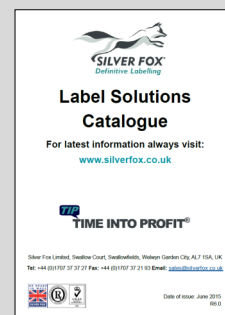
### More Information

For more information on Endurance® Pipe ID tape or to discuss your needs in more detail call our sales department on +44 (0)1707 37 37 27 or e-mail: [sales@silverfox.co.uk](mailto:sales@silverfox.co.uk)

### FEATURES & BENEFITS

- Custom made to your requirements
- Choice of 3 widths; 50mm, 100mm, 150mm
- Made to BS1710:1984, BS4800 and ISO14726 standards.
- Can be used externally or internally
- Available in wide range of colours

### SILVER FOX CATALOGUE



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### TECHNICAL DATA

Material	50 micron Self-adhesive Polyester
RoHS (EU 2002/95/EC)	RoHS Compliant
Colour Options	All colours taken from the <b>BS1710 (BS4800)</b> and <b>ISO14726</b> standards.



### PRODUCT TESTING

Test	Method
Hydrogen Sulphide	H <sub>2</sub> S Sour Gas Exposure (2% H <sub>2</sub> S)
UV Weathering 6500 hours	ISO 4982 Part 3 Method A Cycle 1
Salt Mist Spray	IEC60068-2-52 Test Kb Salt Mist (Cyclic)
Moisture Resistance	MIL-STD-202G Method 106G
Low Temperature 72 hours @ -40°C	MIL-STD-810F Method 502.4
High Temperature 2000 hours @ 70°C to 100°C*	MIL-STD-202G Method 108A

\*Samples were subjected to 500 hours @ 70°C, followed by 500 hours @ 85°C followed by 1000 hours @ 100°C

### STORAGE INSTRUCTIONS

Storage Instructions	Store between 50° F (10° C) and 77° F (25° C)
Shelf Life	2 Years
Conditions	Keep in dark conditions
Humidity Resistance	35% to 65% RH

### ORDER INFORMATION

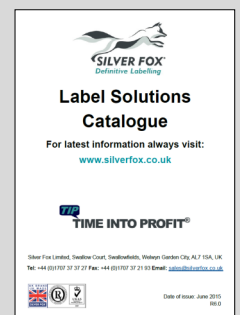
Product Code	Width** (mm)	Length (m)	Rolls / Pack
ET/HD/50/25	50	25	1 Roll
ET/HD/50/50	50	50	1 Roll
ET/HD/100/25	100	25	1 Roll
ET/HD/100/50	100	50	1 Roll
ET/HD/150/25	150	25	1 Roll
ET/HD/150/50	150	50	1 Roll

\*\* Other sizes available on request

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Pipe Contents	Basic Identification Colour	Colour Code ID	Basic Identification Colour
<b>WATER</b>			
Drinking	GREEN	AUXILIARY BLUE	GREEN
Cooling (Primary)	GREEN	WHITE	GREEN
Boiler Feed	GREEN	CRIMSON WHITE CRIMSON	GREEN
Condensate	GREEN	CRIMSON EMERALD CRIMSON	GREEN
Chilled	GREEN	WHITE EMERALD WHITE	GREEN
Central Heating < 100°C	GREEN	BLUE CRIMSON BLUE	GREEN
Central Heating > 100°C	GREEN	CRIMSON BLUE CRIMSON	GREEN
Cold Down Service	GREEN	WHITE BLUE WHITE	GREEN
Hot Water Supply	GREEN	WHITE CRIMSON WHITE	GREEN
Hydraulic Power	GREEN	SALMON PINK	GREEN
Sea, River Untreated	GREEN	GREEN	GREEN
Fire Extinguishing	GREEN	RED	GREEN
<b>OILS</b>			
Diesel Fuel	BROWN	WHITE	BROWN
Furnace Fuel	BROWN	BROWN	BROWN
Lubricating	BROWN	EMERALD	BROWN
Hydraulic Power	BROWN	SALMON PINK	BROWN
Transformer	BROWN	CRIMSON	BROWN
<b>REFRIGERATION SERVICES</b>			
Refrigerant 12	YELLOW OCHRE	BLUE	YELLOW OCHRE
Refrigerant 22	YELLOW OCHRE	SEA GREEN	YELLOW OCHRE
Refrigerant 502	YELLOW OCHRE	GOLDEN BROWN	YELLOW OCHRE
Anhydrous Ammonia	YELLOW OCHRE	DARK MAUVE	YELLOW OCHRE
Other Refrigerants	YELLOW OCHRE	EMERALD	YELLOW OCHRE
<b>OTHER CONTENTS</b>			
Natural Gas	YELLOW OCHRE	PRIMROSE	YELLOW OCHRE
Compressed Air	LIGHT BLUE	LIGHT BLUE	LIGHT BLUE
Vacuum	LIGHT BLUE	WHITE	LIGHT BLUE
Steam	SILVER GREY	SILVER GREY	SILVER GREY
Drainage	BLACK	BLACK	BLACK
Electrical Conduits and Ventilation Ducts	ORANGE	ORANGE	ORANGE
Acids and Alkalis	VIOLET	VIOLET	VIOLET

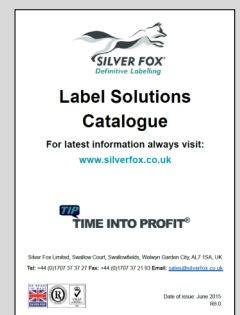
<b>BS 4800 Colour Codes</b>							
12-D-45 Green	22-C-37 Violet	04-E-53 Red	14-E-53 Emerald Green	06-D-45 Golden Brown			
10-A-03 Silver Grey	20-E-51 Light Blue	08-E-51 Yellow	04-C-33 Salmon Pink	16-C-37 Sea Green			
06-C-39 Brown	00-E-53 Black	18-E-53 Auxiliary Blue	10-E-53 Primrose	02-C-37 Dark Mauve			
08-C-35 Yellow Ochre	06-E-51 Orange	04-D-45 Crimson	18-E-51 Blue	00-E-55 White			



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<b>Waste Media</b>	
Black Water	
Waste Oil/Used Oil	
Bilge Water	
Exhaust Gas	
Grey Water	
Sewage, Contaminated	

<b>Fresh Water</b>	
Fresh Water, Sanitary	
Potable Water	
Distillate	
Gas-Turbine Wash Water	
Feed Water	
Cooling Fresh Water	
Chilled Water	
Condensate	

<b>Fuel</b>	
Heavy Fuel (HFO)	
Aviation Fuel	
Biological Fuel	
Gas-Turbine Fuel	
Diesel Fuel	

<b>Sea Water</b>	
Decontaminated Water	
Sea Water, Sanitary	
Ballast Water	
Cooling Sea Water	

<b>Flammable Gasses</b>	
Hydrogen	
Acetylene	
Liquid Gas	

<b>Non-Flammable Gasses</b>	
Oxygen	
Inert Gas	
Nitrogen	
Refrigerant	
Compressed Air LP (Low Pressure)	
Compressed Air HP (High Pressure)	
Control Air / Regulating Air	
Breathing Air	
Breathing Gas	

<b>Steam</b>	
Steam for Heating Purposes	
Exhaust Steam	
Supply Steam	

<b>Oils other than Fuels</b>	
Thermal Fluid	
Lubrication Oil for Gas Turbines	
Hydraulic Fuel	
Lubrication Oil for Steam Turbines	
Lubrication Oil for Gears	
Lubrication Oil for Internal Combustion Engines	

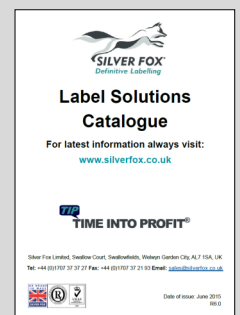
<b>Acids, Alkalis</b>	
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<b>Air in Ventilation Systems</b>	
Discharge Air	
Mechanical Supply Air, Cold	
Natural Exhaust Air	
Atmospheric Air	
Mechanical Exhaust Air	
Decontaminated Supply Air	
Mechanical Recirculated Air	
Mechanical Supply Air, Warm	
Smoke Clearance	
Conditioned Supply Air	
Natural Supply Air	

<b>Fire-Fighting / Fire Protection</b>	
Fire-Fighting Water	
Fire-Fighting Gas	
Sprinkler Water	
Spray Water	
Fire-Fighting Powder	
Fire-Fighting Foam	

<b>Masses</b>	
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RAL Colour Codes			
	<b>RAL 1021</b> Yellow (YE)		<b>RAL 7001</b> Grey (GY)
	<b>RAL 2003</b> Orange (OG)		<b>RAL 8001</b> Brown (BN)
	<b>RAL 3000</b> Red (RD)		<b>RAL 8015</b> Maroon (MN)
	<b>RAL 4001</b> Violet (VT)		<b>RAL 9005</b> Black (BK)
	<b>RAL 5015</b> Blue (BU)		<b>RAL 9006</b> Silver (SR)
	<b>RAL 6018</b> Green (GN)		<b>RAL 9010</b> White (WH)



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