

Endurance[®] Pipe Identification Tape – External Grade

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:

H2S

Where H2S 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.

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TECHNICAL DATA

Material:	Self-adhesive Polyester
Thickness:	50 micron
RoHS:	Yes
Reach:	Yes

TESTING

Test	Method
Elevated Temperature	MIL-STD-202G Method 108A - 2000 hours @ 70°C to 100°C*
Low Temperature	MIL-STD-810F Method 502.4 - 72 hours @ -40°C
Moisture Resistance	MIL-STD-202G Method 106G
Salt Mist Spray	IEC60068-2-52 Test Kb Salt Mist (Cyclic)
UV Weathering	ISO 4982 Part 3 Method A Cycle 1 - 6500 hours
H2S Sour Gas	Exposure (2% H2S)

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

ORDER INFORMATION

Product Code	Width (mm)	Length (mm)	Pack Qty	Colours
ET/HD/50/25	50	25	1 Roll	All colours taken from the BS1710 (BS4800) and ISO14726 standards.
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	

STORAGE INSTRUCTIONS

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

Disclaimer: The information contained in this datasheet is based on data we believe to be reliable and is given for information only and without guarantee and does not constitute a warranty. We are not able to anticipate every set of conditions, so always suggest that users should also satisfy themselves as to the suitability of our products for their particular environment and application and not make any assumptions based on information in this data sheet that is included or omitted. This datasheet supersedes any previous information/datasheet released and is subject to change without notice.





















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BS 1710:1984 / BS4800








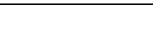
Pipe Contents	Basic Identification Colour	Colour Code ID			Basic Identification Colour
WATER					
Drinking	GREEN	AUXILIARY BLUE			GREEN
Cooling (Primary)	GREEN	WHITE			GREEN
Boiler Feed	GREEN	CRIMSON	WHITE	CRIMSON	GREEN
Condensate	GREEN	CRIMSON	EMERALD	CRIMSON	GREEN
Chilled	GREEN	WHITE	EMERALD	WHITE	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
OILS					
Diesel Fuel	BROWN	WHITE			BROWN
Furnace Fuel	BROWN	BROWN			BROWN
Lubricating	BROWN	EMERALD			BROWN
Hydraulic Power	BROWN	SALMON PINK			BROWN
Transformer	BROWN	CRIMSON			BROWN
REFRIGERATION SERVICES					
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
OTHER CONTENTS					
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





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ISO 14726







BS 4800 Colour Codes									
	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




Waste Media	Code
Black Water	
Waste Oil/Used Oil	
Bilge Water	
Exhaust Gas	
Grey Water	
Sewage, Contaminated	










Fresh Water	Code
Fresh Water, Sanitary	
Potable Water	
Distillate	
Gas-Turbine Wash Water	
Feed Water	
Cooling Fresh Water	
Chilled Water	
Condensate	




Sea Water	Code
Decontaminated Water	
Sea Water, Sanitary	
Ballast Water	
Cooling Sea Water	

Oils other than Fuels	Code
Thermal Fluid	
Lubrication Oil for Gas Turbines	
Hydraulic Fuel	
Lubrication Oil for Steam Turbines	
Lubrication Oil for Gears	
Lubrication Oil for Internal Combustion Engines	

Fuel	Code
Heavy Fuel (HFO)	
Aviation Fuel	
Biological Fuel	
Gas-Turbine Fuel	
Diesel Fuel	
Acids, Alkalis	













Flammable Gasses	Code
Hydrogen	
Acetylene	
Liquid Gas	













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








Steam	Code
Steam for Heating Purposes	
Exhaust Steam	
Supply Steam	


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

Air in Ventilation Systems	
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	

Fire-Fighting / Fire Protection	
Fire-Fighting Water	
Fire-Fighting Gas	
Sprinkler Water	
Spray Water	
Fire-Fighting Powder	
Fire-Fighting Foam	

Masses	
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