



Product Testing

Silver Fox is ISO 9001:2008 registered. An important part of this quality standard is the testing that we undertake as a part of our production.



We recognise that the quality, durability and reliability of our labelling solutions is of critical importance, to our customers across the globe.

We independently test our labels at recognised independent UKAS Certified test laboratories in compliance with a number of different MIL and other standards:



SAE J 1960 - Simulated External Weathering

Our Pipeline Identification Tape and LM/LXL family of Labels (laser printed) were subjected to the SAE J 1960 test method used by the North American Automotive Industry for the evaluation of the weatherability of components used on the exterior of an automobile.

MIL-STD-202G Method 106G – Moisture Resistance

Our label range has been tested according to MIL-STD-202G Method 106G for relative humidity. The test comprised of temperature cycling between 25°C and 65°C with 80% to 100% relative humidity and five excursions to -10°C with uncontrolled humidity.

Testing for a duration of 10 cycles of 24 hours following 24 hours of pre-conditioning at 50°C.

MIL-STD-202G Method 108A – Life at Elevated Temperature

Our label range has been tested according to MIL-STD-202G Method 108A for high temperature performance. Testing for 1000 hours at a constant 85°C.

MIL-STD-810F Method 502.4 – Low Temperature -25°C

Our label range has been tested according to MIL-STD-810F Method 502.4 (Procedure I - Storage) for low temperature performance. Testing for durations of 24, 48 and 72 hours at -25°C.

MIL-STD-810F Method 502.4 – Low Temperature -40°C

Our label range has been tested according to MIL-STD-810F Method 502.4 (Procedure I - Storage) for low temperature performance. Testing for durations of 24, 48 and 72 hours at -40°C.

IEC60068-2-52 Test kb Salt Mist (Cyclic)

Our label range has been tested according to IEC60068-2-52 test kb Salt Mist (Cyclic).

The test comprised of two hours salt mist exposure followed by 7 days at 35°C 90%/95% relative humidity. Four cycles were repeated in succession total of 28 days.

H2S Exposure (Sour Ageing)

Our label range has been independently subjected to an aggressive environment containing hydrogen sulphide. The exposure was designed to accelerate any potential degradation of the labels.

Samples of labels were exposed to a gas mixture containing 2% hydrogen sulphide (H₂S) at 10 bar and 30°C for 7 days. The exposure represented a huge acceleration factor based on the allowable working limits of 8 hours at 10ppm H₂S, an environment in which the labels would be expected to remain unchanged for considerably longer than 50 years.



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Product Type/Test	MIL-STD-202G Method 108A Elevated Temperature 85°C (185°F)	MIL-STD-810F Method 502.4 Low Temperature -40°C (-40°F)	IEC60068-2-52 Salt Mist (Cyclic)	H ₂ S Exposure Sour Ageing	MIL-STD-202G Method 106G Moisture Resistance	SAE J 1960 Simulated External Weathering
Tie-on Cable Labels (Laser)	✓	✓	✓	✓	✓	✓
Tie-on Cable Labels (Thermal)	✓	✓	✓	✓	✓	
Heatshrink Standard Grade	✓	✓	✓	✓	✓	
Heatshrink Markers Standard Grade	✓	✓	✓	✓	✓	
2-Part Labelling System (Laser)	✓					
2-Part Labelling System (Thermal)	✓	✓	✓	✓	✓	
2-Part Labelling System (Tubing)	✓	✓	✓	✓	✓	
Wrap-around Cable Labels (Laser)	✓	✓	✓	✓	✓	
Wrap-around Cable Labels (Thermal)	✓	✓	✓	✓	✓	
Optical Flag Labels 36 micron self-adhesive Polyester	✓	✓	✓	✓	✓	
Faceplate/General Labels 50 micron self-adhesive	✓	✓	✓	✓	✓	
Cabinet Labels 50 micron self-adhesive Polyester	✓	✓	✓	✓	✓	
Custom Signs (Laser)	✓	✓	✓	✓	✓	✓
Patch Panel Labels 50 micron self-adhesive Polyester	✓	✓	✓	✓	✓	
Patch Panel Labels 100 micron self-adhesive Polyester	✓	✓	✓	✓		
Universal Labels 50 micron self-adhesive Polyester	✓	✓	✓	✓	✓	
Modular ID System	✓	✓	✓	✓	✓	✓
Flange & Valve ID Tags 175 micron non-adhesive Polyester	✓	✓	✓	✓	✓	
Pipe Marking Tape External	✓	✓	✓	✓	✓	✓