

# Foil Bar Code Labels

## Foil Bar Code Labels give you flexibility

**Foil Bar Code Labels** are perfectly practical for office situations, manufacturing plants, production floors and even the outdoors where nature can produce harsh and extreme conditions.

**Foil Bar Code Labels** enduringly adhere to surfaces making them optimal for applications where the need for an adaptable, flexible and enduring label is required. You can trust this product to combat the harshest of conditions such as chemical encounters, abrasion, solvents and high temperatures. To ensure many years of authentic identification and dependable comprehension, the **Foil Bar Code Labels** have the black copy, logo and bar code photographically duplicated to preserve maximum clarity and preserve detail. The surface is then sealed within an anodic layer of the aluminium. The labels are assisted with an aggressive pressure sensitive adhesive designed to comply with an array of exteriority including oily surfaces, ensuring the adherence of these labels for the viability of the asset. To demonstrate your corporate image or to highlight important information, the option for a variety of other colours can be screen-printed. The additional process of *intensification* is available to prolong the life of the label to over 20 years (by improving the resistance of the image from the damaging effects of UV rays and other environmental conditions) while also increasing the heat resistance to 538°C (intermittent). The *intensification process* is a secondary chemical process in which the metallic silver image is coated with metallic gold which improves the resistance in all environments, including outdoor exposure. Depending on the required label size, the **Foil Bar Code Labels** can be supplied in sheet, strip or roll form.



### Test Results

These tests were conducted for a limited period of time in strict laboratory conditions. In order to achieve maximum satisfaction we highly recommend that any customer considering use of this product test the labels in the environment in which they will be used.

CHEMICAL RESISTANCE		
Water/Humidity		No effect
Salt Spray	5% at 35°C, 700 hours	No effect
Ammonium Hydroxide	2 hours at 1% and 5%	Slight dulling of image, affects overall readability
Ethyl Alcohol		No effect
Ethyl Acetate	24 hours	No effect
Ferric Chloride	10%, 16 hours	No effect
Heptane	72 hours	No effect
Hydrocarbon Fluid		No effect
JP-4 Fuel		No effect
Kerosene		No effect
Methyl Ethyl Ketone		No effect
Nitric Acid	1%, 40 hours	No effect
Phosphoric Acid	1%, 40 hours	No effect
Skydrol		No effect
Sodium Hydroxide		Affects overall readability
Sulfuric Acid	10%, 24 hours	No effect
Turbine and jet fuel (MIL-L 5161C)	(MIL-L 5161C)	No effect
Tetra Sodium Pyrophosphate	1%, 40 hours	No effect
Trisodium Phosphate		No effect
TEMPERATURE RESISTANCE		
(Image Intensified)	265 hours at 260°C, 90 hours at 316°C, 60 hours at 371°C	Reduced overall readability after these thresholds
UV EXPOSURE		
(Image Intensified)	Weather-ometer, 20 years equivalent	Reduced overall readability after these thresholds
ABRASION RESISTANCE		
(Image Intensified)	Plates brushed for 7,000 cycles with stiff nylon wheel (C-17) at a 1,000 gm (16 ox.) load	Reduced overall readability after these thresholds

### SPECIFICATIONS

Material	0.08mm thick matte anodised aluminium is standard. 0.013mm thick matte anodized aluminium is optional.
Bar Codes	All alphanumeric bar codes are photo imaged with a human readable equivalent. Guaranteed no skips in sequence. Code 39 with 2.7 to 9.4 characters per inch (CPI) is standard. Other bar code symbology including Code 128, I 2 of 5, 2D Data Matrix and QR Code.
Label Copy	The printed label copy may include block type, stylised type, logos or other designs. All black copy is produced photographically. Colours other than black are screen printed.
Colours	Choose black only or one of our standard colours (red, blue, green, or yellow) for block style type, stylised type, logos or other designs. All bar codes are imaged in black only due to the contrast needed for the bar code scanner. Colour samples available upon request.
Finish	All black copy and bar codes are sealed in an anodic layer to resist defacing, abrasion, and environmental conditions.
Standard Sizes	Over 200 other sizes are available upon request. 32mm x 13mm      38mm x 19mm 44mm x 13mm      60mm x 25mm 44mm x 16mm      51mm x 14mm 51mm x 16mm      70mm x 38mm 51mm x 19mm      51mm x 25mm 51mm x 38mm
Adhesive	Pressure sensitive acrylic adhesive (MC78), .05mm thick supported by a liner. Very high peel strength that provides excellent resistance to heat and chemicals. Will withstand temperatures from -40°C to 149°C (intermittent). Shelf life of 24 months when stored at 22°C and 50% relative humidity.
Packaging	Shipped in peel-off strips for easy removal. Both cartons and trays are clearly marked to indicate serial numbers of contents. Pressure sensitive adhesive orders are shipped with cleaner and application instructions.
Base Material Composition	Aluminium: 99.0% minimum Silicon & Iron (combined): 0.95% maximum Copper: 0.05% - 0.20% Manganese: 0.05% maximum Zinc: 0.10% maximum Others: Each 0.05% maximum, Total 0.15% maximum

- Tailors easily to radial surface
- Photographically reproduced black copy, logos and bar codes ensures first time reads
- Anodising process protects black copy, logos and bar codes from chemical encounters, abrasions and high temperatures
- Adhesives specifically match to surface for maximum adhesion
- Around 200 sizes means no extra tooling charge
- Optional intensification process extends the label life to over 20 years by increasing heat resistance and improving image resistance for extremely harsh environments.



**Our Innovation - Your Edge™**

ASP MICROCOMPUTERS

14 Business Park Drive, Notting Hill, VIC 3168

T: 03 9578 7600 F: 03 9578 7727 Toll Free 1800 061 642

E: [solutions@asp.com.au](mailto:solutions@asp.com.au) W: [www.asp.com.au](http://www.asp.com.au)

Specifications subject to change without notice (E&OE) 0320

