ALTEC
INDUSTRIAL IDENTIFICATION

Technical datasheet

A215

HIGH TEMP ALUMINIUM LABEL

RoHS

Description

A215 is an aluminum high temperature label material with a permanent pressure sensitive, high-temperature acrylic adhesive and a **high opacity, white topcoat** specifically designed for thermal transfer printing on aluminum labels. Do not touch topcoat or ribbon print when hot as smearing may occur, once cooled, ribbon and topcoat are bonded and smear resistant.

Material	Aluminium
Color	White
Adhesive	High temperature acrylic
Color	White
Temperature range	-40°C to +450°C

Printer technology

The choice of thermal transfer printer influences the print quality for the overall aluminum tag performance. Our materials can be used with Altec thermal transfer printers. Testing for specific printer and ribbon is mandatory.

Applications

- A215 aluminum label material is designed for barcode or alphanumeric identification of hot metal items.
- It is the ideal label to withstand the high temperatures encountered in automotive, under the hood applications
- Aluminum and steel mills: cold rolling, tube mills & structural steel mills
- Coils springs, heat treating, nameplates on industrial equipment
- Typical operating temperature -40°C to 450°C

Special considerations

- The surface that you want to label should be clean, dry and free of any surface contamination, such as dust, oil or rust. Isopropyl alcohol would be a recommend solvent to clean the surface.
- When you apply the label, you must use firm pressure to increase the physical contact of the adhesive with the surface of the product.
- Pressure sensitive adhesives will provide stronger bonds to a warm surface, as compared to a colder one. The adhesive will ‘flow’ more readily, increasing the surface area and increasing the adhesion peel strength.
- The A215 top coat & print should not be contacted while exposed to elevated temperature.
- All values shown are averages and should not be used for specification purposes. Adhesion and tack values have a 15% tolerance allotted to the above values stated.
- Customers desiring to develop specifications or performance criteria for specific product applications should contact Altec for further information

ALTEC industrial identification B.V.
Nieuwland Parc 90
3351 LJ PAPENDRECHT

078 - 615 20 33
info@altec.nl
www.altec.nl

Printer technology

Properties	Test method	Average results	
		USA Units	SI Units
Thickness	ASTM D1000		
- Substrate		0.0024 inch	0.061 mm
- Adhesive		0.0024 inch	0.060 mm
- Total		0.0048 inch	0.121 mm
Adhesive			
- Stainless steel	20 minute dwell	> 41 oz/in	45N/100 mm
	24 hour dwell	> 55 oz/in	60N/100 mm
Tack		> 1800g	
Thermal characteristics	Application temperature	Typical 21°C to 38°C	
	Operating temperature	-40°C to 232°C	
	Temperature range (up to)	-40°C to 450°C	
Shelf life	1 year below 27°C and 60% R.H.		

Certifications

RoHS Compliant
SJ/T11364-2006 & EU202/95/EC ; 2003/11/EC ; 76/69/EEC

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