

Removable Q-Cee's Labels- Type QC, PM, MAM & MQC

Technical Datasheet

TTDS-249 Revision 3 – June 2023

Q-Cee Labels are a selection of popular pre-printed labels used in Inspection, Calibration, Inventory and Maintenance tasks. These kits are a selection of labels aimed at the relevant operator or worker for their daily use.

These labels are a permanent label however they can be removed cleanly after use if required. The labels are all made from a vinyl base material for tough performance. Labels are supplied as individual sheets in the handy pocket sized kits as shown above.

Some of the labels are designed with a write-on surface. This allows the user to add additional information e.g. date of test, operator I.D. etc. TE recommends use of a high performance, permanent marker pen with these labels.

The kits come in a handy pocket size convenient booklet design with a cover to protect the labels inside. The booklet is designed to be easily stored or hung above the workshop bench.

Features

- Permanent adhesive but removable
- Tough vinyl base material
- Writable surface
- No adhesive residue on removal
- Variety of label designs in the kit

Temperature Rating

- Operating Temperature Range
-40 to 80°C (-40°F to 176°F)
- Minimum Application Temperature 10°C (50°F)

Applications

- Ideal for identification of maintenance, calibration, stock control and inspection work.
- Industrial, Automotive, Rail, Electrical, Laboratory and Warehouse.

Design for Environment

- Does not contain any declarable or prohibited substances from the UNIFE Railway Industry Substances List
- Further information and a downloadable declaration covering RoHS and REACH compliance can be found at the TE Product Compliance Support Centre:

<http://www.te.com/usa-en/utilities/product-compliance.html>

Shelf Life

2 years when following good commercial storage practice detailed below.

Storage

Product should be stored in the original packaging, with any plastic covers which were included during shipping. Store out of direct sunlight in a clean, dry, dust free, environment.

Product should be stored at approximately 21°C and 50% relative humidity.



Typical Label Thickness

- Label (including adhesive): 0.120 mm / 0.005 inch
- Liner: 0.188 mm / 0.007 inch

Technical Performance


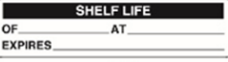



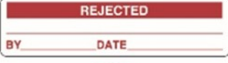




	Requirement	Results	
Print Permanence			
Marking of Electrical Insulating Materials, SAE AS 4952	Legible after 100 rubs 1kg weight with an eraser	Pass	
Resistance to Solvents, MIL STD 202 Method 215	Legible after 30 wipes	Pass	
Fluid Exposure		Adhesive/color	Printed legend
• Isopropyl alcohol	Labels to remain on test plate, legible (TE doc 109-121012) and no change in pre-printed color	Pass	Pass
• IRM 902 reference oil		Pass	Pass
• Grease		Pass	Pass
• Engine Oil	Samples stuck to Aluminium plates. 24 hours immersion in fluid @ 23°C followed by 20 rubs, SAE AS5942	Pass	Pass
• Diesel Fuel		Pass	Pass
• Tap water		Pass	Pass
• 5% Salt solution		Pass	Pass
• Detergent (1% solution)		Pass	Pass
Adhesion to FTM1 (180°)		Typical Peel force (N/25mm (oz/in.))	
Test surface:	FTM1 (180°)	20min Dwell	72hr Dwell
• Stainless steel		20 (73)	22 (80)
• Glass		27 (97)	28 (101)
• Aluminium		25 (90)	29 (105)
• Polypropylene		2.0 (7.5)	2.0 (7.5)
• Epoxy painted surface		34 (126)	32 (116)
Weatherability			
Artificial weathering to ASTM G154	Labels to remain on plate, no discoloration and legible after 240hr, UV-A and no discoloration	Pass, samples remain legible and no discoloration	
Thermal performance			
Heat Aging	Labels to remain on plate, no discoloration and legible after 168hr at 100±2°C	Pass, samples remain legible and adhered to test plate	
Thermal Cycling	Labels to remain on plate, no discoloration and legible after 10 cycles of 1hr @ -50°C then 1hr @ 90°C followed by 100rubs	Pass, samples remain legible and adhered to test plate	

Note: write-on print performance is dependent on pen used.

Where possible, TE have tested product as a finished item, including the print. Operational tests are followed by an assessment of mark adherence to validate fit, form and function.





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Kit Label Details

Part No.	Part Description	Packing		Label Image	Label Quantity & description	Label dimensions (w /h)	
		No. of labels per Kit	No. of labels per pack (10 Kits per bag)			mm	in
2404300-1	INVENTORY-LABEL-BK-225	225	2250		105x "INVENTORY"	50.8 x 12.7	2.0 x 0.5
					60x "SHELF LIFE"		
					30x "SCRAP"		
					30x "FOR REFERENCE ONLY"		
2404400-1	INSPECTION-LABEL-BK-222	222	2220		108x "INSPECTED OK"	50.8 x 19.1	2.0 x 0.75
					60x "REJECTED"	50.8 x 12.7	2.0 x 0.5
					54x "HOLD FOR INSPECTION"	50.8 x 19.1	2.0 x 0.75
2404500-1	CALIBRATION-LABEL-BK-247	247	2470		84x "CALIBRATION"	50.8 x 15.9	2.0 x 0.625
					108x "CAL."	Ø 15.9	Ø 0.625
					55x "OUT OF CALIB. DO NOT USE"	Ø 12.7	Ø 0.5

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		No. of labels per Kit	No. of labels per pack (10 Kits per bag)			mm	in
2388600-1	MAINTENANCE-LABEL-BK-282	282	2820		150x "TESTED"	50.8 x 12.7	2.0 x 0.5
					72x "PREVENTATIVE MAINTENANCE"	50.8 x 15.9	2.0 x 0.625
					30x "OUT OF SERVICE"	50.8 x 12.7	2.0 x 0.5
					30x "DEFECTIVE DO NOT USE"	50.8 x 12.7	2.0 x 0.5



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