Department of Industry
Resources Regulator

Mine Safety

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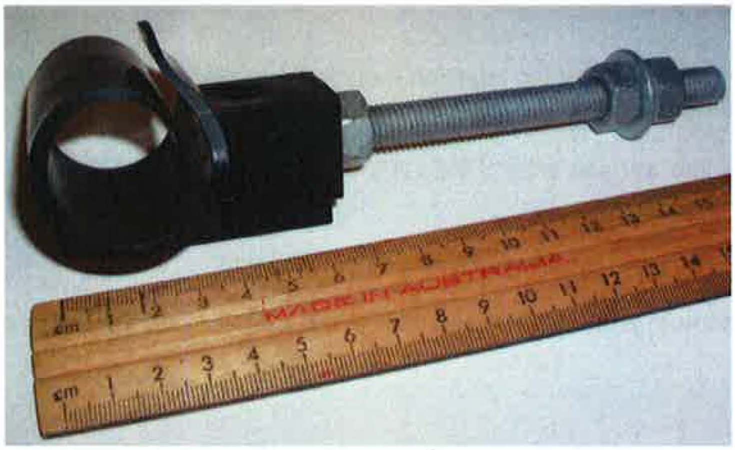
15th of July, 2016

M.S.T.C. TEST REPORT T16-00312/0001

Company:	R & D Technology Pty. Ltd.
Sample Description:	*LWS-150-10* – injection moulded copolymer polypropylene Lanyard Wire Support
Intended Use:	Non-Defined Application [Refer *MDG3608*, Section 7]
Sample No.:	T16-00312/0001



SUMMARY

As the projected surface area of the assessed injection moulded non-metallic material is less than the 10,000 mm^2 '*Limitation of Surface areas*' outlined in Section 7.4 of *AS/NZS 60079-0*, the material satisfies the electrostatic charge requirements of *AS/NZS 60079-0* for non-metallic materials used in 'Group 1' explosive atmospheres.

Analysed by: Checked by:

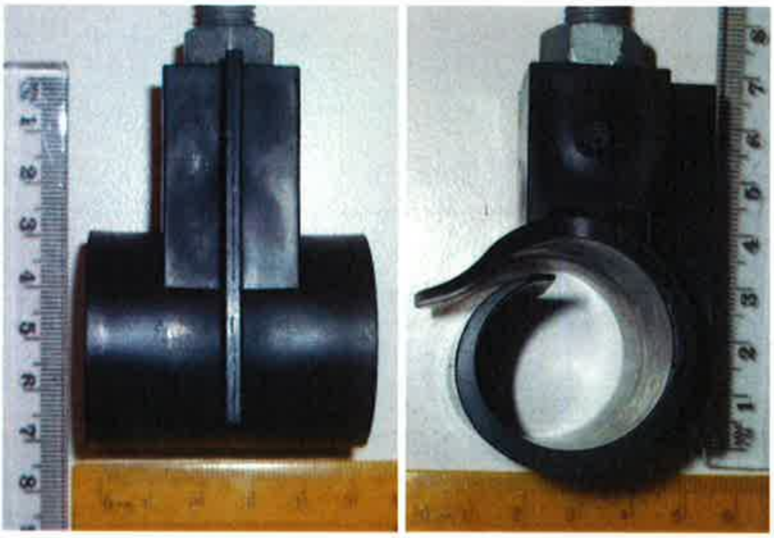
Authorised by:

G. Slater
Manager, Mine Safety Technology Centre

ELECTRICAL RESISTANCE

Sample:

LWS-150-10 – injection moulded copolymer polypropylene Lanyard Wire Support



Maximum height of the injection moulded non-metallic sample = 65 mm
Maximum width of the injected moulded non-metallic sample = 50 mm

⇨ Maximum 'projected' surface area of the *LWS-150-10* Lanyard Wire Support < (50 mm x 65 mm)

50 mm x 65 mm = 3,250 mm^2

➔ the maximum projected surface area of the *LWS-150-10* sample is **< 3,250 mm^2**

Requirements:

Clause 7.4.2 b) of *AS/NZS 60079-0;2012* states that the requirement to avoid the danger of ignition due to electrostatic charges shall be satisfied by limitation of the surface area of non-metallic parts of enclosures to ≤ 10,000 mm^2 for Group 1 equipment (- as shown in Table 6).

The surface area for curved objects shall be the projection of the object giving the maximum area.

Sample Status:

As the maximum projected surface area of the submitted sample is less than the 10,000 mm^2 '*Limitation of Surface areas*' outlined in Section 7.4 of *AS/NZS 60079-0*, the assessed sample satisfies the electrostatic charge requirements of *AS/NZS 60079-0* for non-metallic materials used in 'Group 1' explosive atmospheres.