

Draggin Jeans Pty Ltd  
196 Wells Street  
South Melbourne  
Victoria  
Australia 3205

For the attention of: Grant Mackintosh

## Technical Report

Subject: EN 13595-1 Abrasion Resistance Testing of two types  
of Jean referenced "Draggin" and "Red Route"

Your ref: Delivery by Mr Paul Varnsverry

Our ref: SPC0168550/0841

Date: 22<sup>nd</sup> October, 2008

### Conditions of Issue:

**This report may be forwarded to other parties concerned provided that it is not abbreviated or changed in any way. It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.**

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only and are not part of the reported results. All comments and interpretations are outside the scope of UKAS accreditation and are based on current SATRA knowledge.

A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.

The uncertainty of the results in this report is based on a standard uncertainty multiplied by a coverage factor  $k=2$ , which provides for a confidence level of approximately 95%.

Report signed by: P.J. Doughty  
Position: PPE Technologist  
Department: Safety Products Centre

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**WORK REQUESTED:**

Samples of two jean types referenced “Draggin” and “Red Route” were received by SATRA on 2<sup>nd</sup> October 2008 for assessment in accordance with the requirements specified in EN 13595-1: 2002 Clause 5.4 Abrasion Resistance.

**CONCLUSIONS**

Sample Reference (see note 1)	Result
Draggin	PASS - Level 1 - Zones 1 and 2
Red Route	FAIL - Level 1 – Zones 1 and 2

**TESTING:**

Testing was carried out in accordance with EN 13595-1: 2002 Clause 5.4 on 21<sup>st</sup> October, 2008.

**Photograph 1: Jeans referenced “Draggin”**



**Photograph 2: Jeans referenced “Red route”**



Report by: S.Hardcastle  
Draggin Jeans Pty Ltd  
SPC0168550/0841/SH/PJD  
22<sup>nd</sup> October, 2008

Signed P J Doughty  
PPE Technologist  
Safety Product Centre  
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## RESULTS

### EN 13595-1: 2002 Requirements

#### Clause 5.4 Abrasion Resistance

Zone	1 & 2	3	4
Requirement in seconds; Level 1	4.0	1.8	1.0
Requirement in seconds; Level 2	7.0	2.5	1.5

### EN 13595-1: 2002 Test Results

Table 2: Abrasion Resistance Results

SAMPLE REFERENCE	RELATIVE ABRASION TIME (s)	PASS/FAIL
Draggin	3.18	Level 1 – Zones 1 and 2 PASS
	4.49	
	3.85	
	3.79	
	5.15	
	5.93	
	<b>Mean: 4.40</b>	
Red Route (see note 1)	2.74	Level 1 – Zones 1 and 2 <b>FAIL</b>
	2.67	
	1.31	
	1.31	
	0.86	
	1.47	
	<b>Mean: 1.73</b>	

Note 1 – Sample reference “Red Route” had areas locally reinforced with an inner lining. For the purposes of this testing, all specimens were taken from the reinforced areas of the Red Route garment. The sample reference “Draggin” included a reinforcement lining in all areas of the garment. All testing was carried out on the garments in the as received condition with no cleaning pre-treatment carried out.

\*\*\*\*\* END OF REPORT \*\*\*\*\*