

Customer details: HexArmor Performance Fabrics Inc  
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USA

For the attention of: Brent Lohrmann

# Technical Report

Subject: Samples of gloves referenced 5040 for testing to  
the innocuousness requirements of EN 420:2003  
Customer: HexArmor Performance Fabrics Inc  
Your ref:  
Our ref: SPC0169878/RS  
Date: 15<sup>th</sup> December 2008

## Conditions of Issue:

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Tests marked † are not UKAS accredited.

## WORK REQUESTED:

Samples of gloves referenced 5040 were received on the 25<sup>th</sup> November 2008 for testing in accordance with the innocuousness requirements of EN 420: 2003.

## MATERIALS TESTED:

- Grey Leather
- Textile cuff

## CONCLUSIONS:

The samples of gloves referenced 5040 were assessed in accordance with the innocuousness requirements of EN 420: 2003 and failed to meet with the requirement for chromium VI. Testing was completed on the 12<sup>th</sup> December 2008. Full results are given in the tables below.

## TESTS REQUIRED:

- BS EN 420:2003 Clause 4.3.2 pH Value (ISO 3071 Textiles & other materials & ISO 4045 for leathers)
- BS EN 420: 2003 Clause 4.3.3 Chromium VI content
- SATRA TM 342: 1995 Determination of Pentachlorophenol

## RESULTS AND REQUIREMENTS:

EN 420: 2003 Clause 4.3.2 pH value

Sample	Method	Results	Pass/Fail
Textile cuff	ISO 3071: 2005	7.05	Pass
Full thickness through the palm	ISO 4045: 1998	4.25	Pass
<b>Requirement</b>	<b>Minimum 3.5 maximum 9.5</b>		

EN 420: 2003 Clause 4.3.3 Chromium VI content

Sample	Chromium VI (mg/kg)	% Recovery	Pass/Fail
Grey leather	7.9	96	Fail
<b>Requirement</b>	<b>Less than 3mg/kg</b>		

Note: The analysis was performed using a 4cm cell to give a detection limit of 3 mg/kg. The result is based on the highest recorded value of duplicate determinations.

SATRA TM 342: 1995 Determination of Pentachlorophenol

Sample	Pentachlorophenol (mg/kg)
Grey leather and textile cuff combined	None detected (< 1mg/kg) – Pass
<b>Requirement</b>	<b>EC council directive 91/173/EEC states that Pentachlorophenol shall not be detected in materials in concentrations above 1000mg/kg. However it should be noted that German regulations restrict the levels of Pentachlorophenol detected to a maximum of 5mg/kg.</b>