

# Test Report

REPORT NO. MA3905/Y

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**Section 2**  
**anaerobic adhesive**  
**Loctite 277**

**CLIENT:**  
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**MATERIALS CHEMIST**

**DATE:** 20 OCTOBER 2009

**CLIENT'S REFERENCE:** 4591154831

*Gill Middleton*  
**GILL MIDDLETON**  
**HEAD OF MATERIALS**  
**TESTING**



Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

**SUITABILITY OF NON-METALLIC PRODUCTS FOR USE IN CONTACT WITH WATER INTENDED FOR HUMAN CONSUMPTION WITH REGARD TO THEIR EFFECT ON THE QUALITY OF THE WATER**  
**WRAS TESTS OF EFFECT ON WATER QUALITY (BS 6920: 2000)**  
**AUDIT TESTS; SITE APPLIED PRODUCTS;**  
**HIGH TEMPERATURE TESTS (BS6920: PART 3: 2000)**

**INFORMATION AND GUIDANCE NOTE**

**Water Regulations Advisory Scheme**

The Scheme wishes to draw to the attention of product manufacturers and users that reports issued by accredited test laboratories do not of themselves constitute approval by the Scheme or the test laboratory. Only a letter from the Scheme, citing a Directory Reference Number, can be regarded as indicating approval.

**1. SAMPLES FOR TESTING**

General composition of product	anaerobic adhesive (dimethacrylate ester)
Trade name and reference of material	Loctite 277
Material manufacturer	Loctite America
Submitting organisation	Henkel Ltd
Batch number of product	L38LAA1117
Date of manufacture of product	November 2008
Description of sample	red glossy translucent liquid applied to stainless steel fitting as described in BS6920-2.1:2000 clause 7.7
Method of manufacture of sample	information not provided
Sampling procedure	production sample
Number of articles constituting a test piece	1
Calibration mark of test containers	1 litre
Date of receipt of test samples	26 May 2009
Condition of samples on receipt	satisfactory
Method of packaging	red plastic squeezable bottle with nozzle and cap
Conditions of storage of the samples between receipt and testing	as instructed in BS6920-2.1: 2000: clause 5.2

Proposed use of the product

thread locking

**SITE APPLIED PRODUCTS**

The samples were prepared in accordance with manufacturer's instructions to the user.

Samples prepared by

Intertek Leatherhead

Mode of preparation and application of the product

a thin bead of adhesive was applied to the screw threads at each end of the body of the coupling & the screw collars were screwed tightly onto the body of the coupling

Nature of test plates

compression fitting prepared as described in BS6920-2.1 2000 Clause 4.3 except that the fittings were stainless steel couplings.

Curing conditions

4 days at ambient temperature (22-24)°C

**2. ODOUR AND FLAVOUR OF WATER**

Extraction temperature - 85°C

Date test commenced – 16 June 2009

Number of tasters in the taste panel – 3

Extract 1

(i) chlorine free test water:

Taster	Odour description	Flavour description	Flavour dilution number
1	pond water	N/A	N/A
2	nil	N/A	N/A
3	nil	N/A	N/A

(ii) chlorinated test water:

Taster	Odour description	Flavour description	Flavour dilution number
1	nil	N/A	N/A
2	acid	N/A	N/A
3	rubber	N/A	N/A

Extract 7 (final extract)

(i) chlorine free test water:

Taster	Odour description	Flavour description	Flavour dilution number
1	nil	nil	<1
2	nil	nil	<1
3	nil	nil	<1

(ii) chlorinated test water:

Taster	Odour description	Flavour description	Flavour dilution number
1	nil	nil	<1
2	nil	nil	<1
3	nil	nil	<1

Comment - thus the samples of this product have been found to comply with the requirements of BS 6920: Part 1: clause 4 when extracted at 85°C.

## CONCLUSION

The sample of the product referred to in this report has been tested in accordance with the methods specified in BS 6920: Part 2: 2000 "Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water: Methods of test" (including High Temperature Tests in accordance with BS 6920: Part 3: 2000) and the requirements of the Water Regulations Advisory Scheme 'Guidance on the Requirements for Approval of Non-Metallic Materials in Fittings: Appendix A: version 2.8 April 2007'

**This product has satisfied the criteria set out in BS 6920: Part 1: 2000 "Specification" and thus complies with the requirements of the Water Regulations Advisory Scheme Tests of Effect on Water Quality (BS 6920: 2000): Audit tests / Odour & Flavour of Water /High Temperature Tests.**

N.B The results specified in this report relate only to the sample of the product submitted for testing. Any changes in the nature or source of ingredients and the process of manufacture or application could affect the suitability of the product for use in contact with potable water.

Materials and products intended for use by a public water supply company in the preparation or conveyance of water may need to satisfy more comprehensive toxicological requirements as set specified by the Drinking Water Inspectorate. These additional requirements are necessary to ensure legal compliance with Regulation 31 of Water Supply (Water Quality) Regulations 2000.

NO OTHER TESTS WERE UNDERTAKEN ON THIS PRODUCT

## NOTE FOR WRAS

Audit tests on this product are covered by WQC report reference M 103383 dated 14 July 2004 and also your letter ref Hannah Lewis dated 8 July 2009 relating to approval number 0407508.

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