

CONFIDENTIAL

TECHNICAL FILE

for PROTECTIVE GLOVE AGAINST ;

Chemical Hazards,
Mechanical Hazards and
Micro-organism Hazards

P.V.C. Unlined Long Glove Medium Thick Type (Item No. G52L)
P.V.C. Flocklined Long Glove Thick Type (Item No. G50L)
and
P.V.C. Flocklined Long Glove Medium Thick Type (Item No. G53L)



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January 19, 2006

This Technical File is for the gloves sleeve welded onto PVC gloves which are already tested by LRCCP.

Therefore, the test data mentioned in Annexes are only for sleeve part.

For the reference, the correspondent between Sleeve Welded Glove and PVC glove is as follows;

Sleeve Welded Glove	PVC Glove	Certificate No. of PVC Glove
G52L	G2N	0076/065/162/04/99/0002
G50L	G20N	0076/065/162/04/99/0004
G53L	G23N	0076/065/162/04/99/0005

1) Manufacturer

S.T. Chemical Co., Ltd.
4-10, 1-chome, Shimo-ochiai,
Shinjuku-ku, Tokyo 161-8540
Japan

2) Sales Representative

Renmark Ltd.
Le Raphael,
6 Quai J. C. Rey,
98000 Monaco

3) Manufacturing Plant

S.T. Chemical Co., Ltd. Saitama Factory
138 Kyohei-kita-Kyowa, Honjo-shi,
Saitama-ken, 367
Japan

or

Family Glove Co., Ltd.
624/1-4 Moo 11, Nongkharm, Sriracha
Cholburi, 20280 Thailand

4) Trade Mark

 **S.T. CHEMICAL CO., LTD.**

or

 **S.T. CHEMICAL CO., LTD.**

5) Alphanumeric reference

P.V.C. Unlined Long Glove Medium Thick Type
(Item No. G52L)

P.V.C. Flocklined Long Glove Thick Type
(Item No. G50L)

P.V.C. Flocklined Long Glove Medium Thick Type
(Item No. G53L)

6) PPE Type

P.V.C. Glove with sleeve

7) Types of material

[Glove]

* Polyvinylchloride paste resin

* Non phthalate plasticizer

* Epoxy compound

* Other

* Staple fiber(G50L & G53L)

[Sleeve]

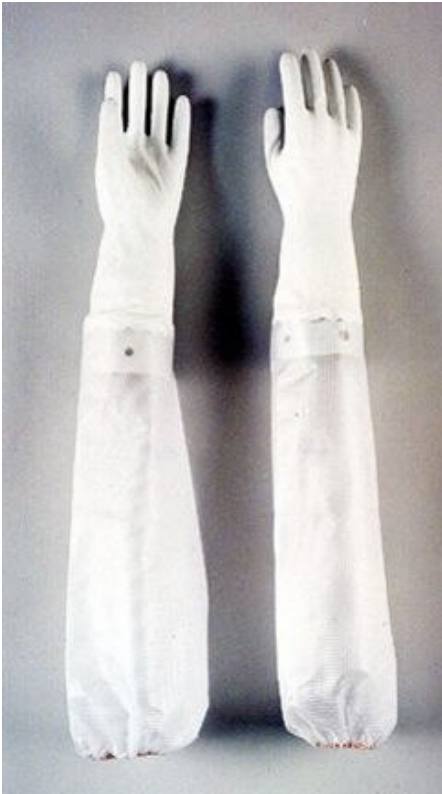
Polyvinylchloride paste resin

Dioctyl phthalate

Other

8) Visual description

For G52L



For G50L



For G53L



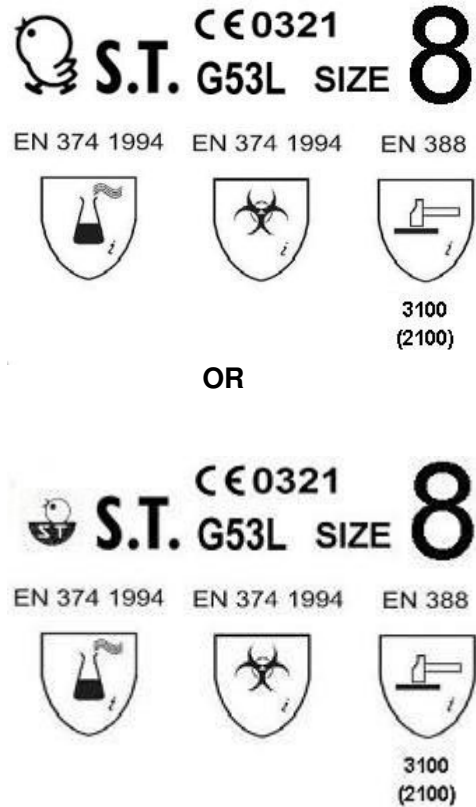
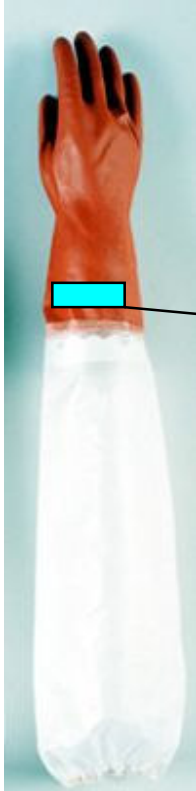
9) List of standards

pr EN420 : Protective Gloves - General Requirements

pr EN388 : Protective Gloves against Mechanical Risks

pr EN374 : Protective Gloves against Chemical Risks and Micro organisms

10) Marking on PPE



11) Test results of General Requirements

See **Annex A**

12) Test results of Mechanical Risks

See **Annex B**

13) Test results of Chemical Risks

See **Annex C**

14) Information and Instruction for Use

See ***Annex D***

15) Indication for Envelope

See ***Annex E***

Annex A

TEST RESULTS OF GENERAL REQUIREMENTS

A-1) Sizes and Dimensions

	<i>Length (Minimum)</i>	<i>Width (at the Widest Part)</i>
Sleeve	70 cm	Minimum 21 cm

** Size indication for sleeve welded gloves follows the glove size.*

A-2) pH

	<i>pH</i>
Sleeve	5.95

Annex B

TEST RESULTS FOR MECHANICAL RISKS

B-1) Abrasion Resistance

	Cycle				
	<i>Specimen 1</i>	<i>Specimen 2</i>	<i>Specimen 3</i>	<i>Specimen 4</i>	<i>Level</i>
Sleeve	2000	3000	7000	5000	2

B-2) Blade Cut Resistance

<i>Item</i>		<i>Test 1</i>	<i>Test 2</i>	<i>Test 3</i>	<i>Test 4</i>	<i>Test 5</i>	<i>Average</i>	<i>Level</i>
Sleeve	Left	1.56	1.56	1.67	1.67	1.64	1.62	1
	Right	1.08	1.06	1.11	1.82	1.95	1.40	

B-3) Tear Resistance

<i>Specimen</i>	<i>Tear Resistance (N)</i>	<i>Level</i>
Parallel direction with glove	2.5–2.9–2.7–2.6	0
Perpendicular direction to glove	2.9–3.1–3.2–3.0	0

B-4) Perforation Resistance

	<i>Puncture Resistance (N)</i>	<i>Level</i>
Sleeve	12.0–11.0–13.0–12.0	0

Annex C

TEST RESULTS FOR CHEMICAL RISKS

C-1) Air Leak Test

	<i>Air Leakage</i>
Sleeve	No leakage

C-2) Water Leak Test

	<i>Water Leakage</i>
Sleeve	No leakage

C-3) Chemical Resistance (Liquid : Nitric Acid)

<i>Sleeve</i>	<i>Test 1</i>	<i>Test 2</i>	<i>Test 3</i>	<i>Average</i>	<i>Level</i>
Thickness(mm)	0.17	0.15	0.15	0.16	6
Breakthrough Time(min.)	>480	>480	>480	>480	

Annex D

INFORMATION AND INSTRUCTIONS FOR USE

D-1) Manufacturer S.T. Chemical Co., Ltd.
4-10, 1-chome, Shimo-ochiai,
Shinjuku-ku, Tokyo 161-8540
Japan

or

Sales Representative Renmark Ltd.
Le Raphael,
6 Quai J.C. Rey,
98000 Monaco

D-2) Designation of the Glove P.V.C. Long Glove against
Chemical Hazards,
Mechanical Hazards and
Micro-organism Hazards

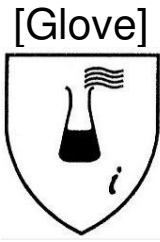
Item No. G52L
Item No. G50L **or**
Item No. G53L

D-3) Information of size range

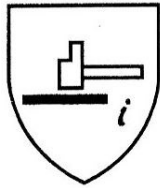
S	:	7
M	:	8
L	:	8 1/2 - 9
XL	:	9 1/2 - 10
XXL	:	10 1/2 - 11

D-4) Pictogram and Performance Level

For G52L



Level 6 against Nitric Acid
(According to EN 374.3)

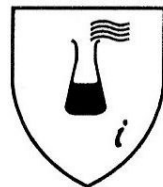


3 0 0 0
Abrasion Resistance : Level 3
Blade Cut Resistance : Level 0
Tear Resistance : Level 0
Perforation Resistance : Level 0

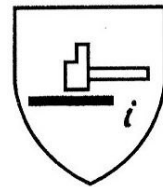
(According to EN 388)



[Sleeve]



Level 6 against Nitric Acid
(According to EN 374.3)



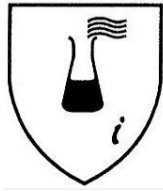
2 1 0 0
Abrasion Resistance : Level 2
Blade Cut Resistance : Level 1
Tear Resistance : Level 0
Perforation Resistance : Level 0

(According to EN 388)

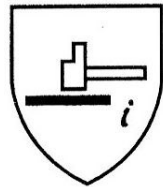


For G50L

[Glove]



Level 6 against Nitric Acid
(According to EN 374.3)

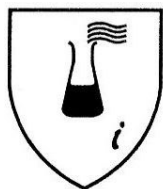


3 1 0 0
Abrasion Resistance : Level 3
Blade Cut Resistance : Level 1
Tear Resistance : Level 0
Perforation Resistance : Level 0

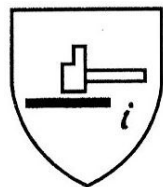
(According to EN 388)



[Sleeve]



Level 6 against to Nitric Acid
(According to EN 374.3)



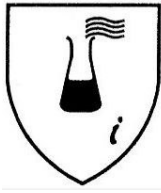
2 1 0 0
Abrasion Resistance : Level 2
Blade Cut Resistance : Level 1
Tear Resistance : Level 0
Perforation Resistance : Level 0

(According to EN 388)

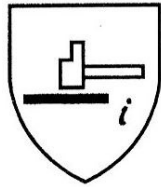


For G53L

[Glove]



Level 6 against Nitric Acid
(According to EN 374.3)

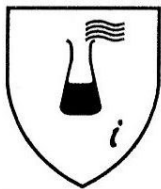


3 1 0 0
Perforation Resistance : Level 0
Tear Resistance : Level 0
Blade Cut Resistance : Level 1
Abrasion Resistance : Level 3

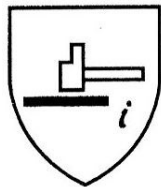
(According to EN 388)



[Sleeve]



Level 6 against Nitric Acid
(According to EN 374.3)



2 1 0 0
Perforation Resistance : Level 0
Tear Resistance : Level 0
Blade Cut Resistance : Level 1
Abrasion Resistance : Level 2

(According to EN 388)



Annex E

INDICATION FOR ENVELOPE

E-1) Manufacturer

S.T. Chemical Co., Ltd.
4-10, 1-chome, Shimo-ochiai,
Shinjuku-ku, Tokyo 161-8540
Japan

or

Sales Representative

Renmark Ltd.
Le Raphael,
6 Quai J.C. Rey,
98000 Monaco

E-2) Item No.

G52L, G50L or G53L

E-3) Size

7(S), 8(M), 8 1/2-9(L), 9 1/2-10(XL), or
10 1/2-11(XXL)

E-4) Reference

“ Information and Instruction for use”
(Catalogue) is available at

S.T. Chemical Co., Ltd.
4-10, 1-chome, Shimo-ochiai,
Shinjuku-ku, Tokyo 161-8540
Japan

and

Renmark Ltd.
Le Raphael,
6 Quai J.C. Rey,
98000 Monaco

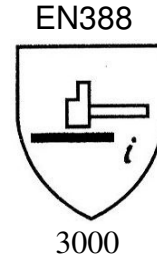
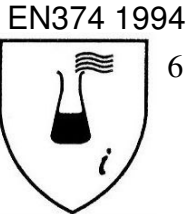
E-5) CE Marking

CE 0321

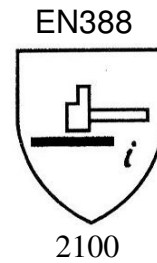
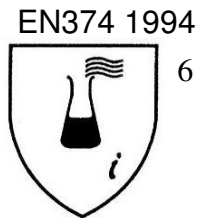
E-6) Pictograms

For G52L

[Glove]

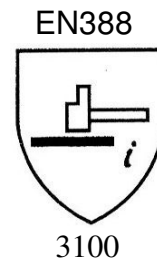
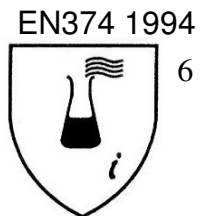


[Sleeve]

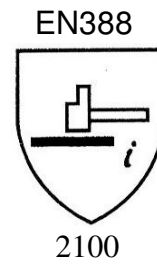
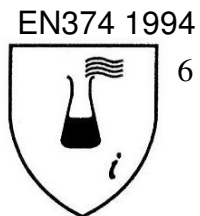


For G50L

[Glove]



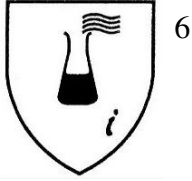
[Sleeve]



For G53L

[Glove]

EN374 1994

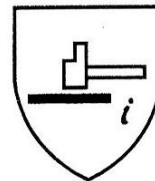


6

EN374 1994



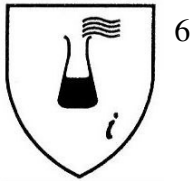
EN388



3100

[Sleeve]

EN374 1994

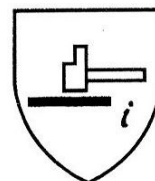


6

EN374 1994



EN388



2100