

MasterClean Protection

NITRILE GLOVES

For

CLEAN ROOM USE

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Manufactured By:

MasterClean Technologies Sdn. Bhd. – MALAYSIA

TEL: (606)-677-2781

FAX: (606)-677-2780

Product Sheet No. CRN01-0

Date Issued: 15 July 2002

1. FEATURES

- LOW PARTICULATE COUNTS
- LOW IONIC CONTENT
- STATIC DISSIPATIVE
- LOW PROTEIN LEVELS – REDUCES RISK OF ALLERGIC REACTIONS
- HIGH MODULUS FOR EXTRA COMFORT
- TEXTURED SURFACE FOR BETTER GRIP
- INSPECTED & PACKED IN CLASS A 100 CLEAN ROOM
- LONG BEADED CUFF – ELIMINATES GAPS BETWEEN SLEEVES & GLOVES
- AMBIDEXTROUS

2. PACKAGING

GLOVES ARE LAID OUT WITH CUFFS ALIGNED TO OPENING EDGE OF BAG.
GLOVES ARE DOUBLE BAGGED IN ESD POLYBAGS.
10 DOUBLE BAGS IN LINER POLYBAG PER DOUBLE WALLED CARTON.

3. APPLICATIONS

INDUSTRY	RECOMMENDED BRAND
SEMICONDUCTOR & WAFER MANUFACTURING	<i>MasterClean Protection</i>
MICROCHIP ASSEMBLY & MICROELECTRONIC	<i>MasterClean Protection</i>
AEROSPACE	<i>MasterClean Protection/MasterClean Comfort</i>
PHARMACEUTICAL / BIOTECHNOLOGY	<i>MasterClean Comfort</i>
ELECTRONIC ASSEMBLY LINES	<i>MasterClean Comfort</i>
FOOD MANUFACTURING	<i>MasterClean Comfort/MasterClean Grip</i>
OPTICS	<i>MasterClean Comfort/MasterClean Grip</i>

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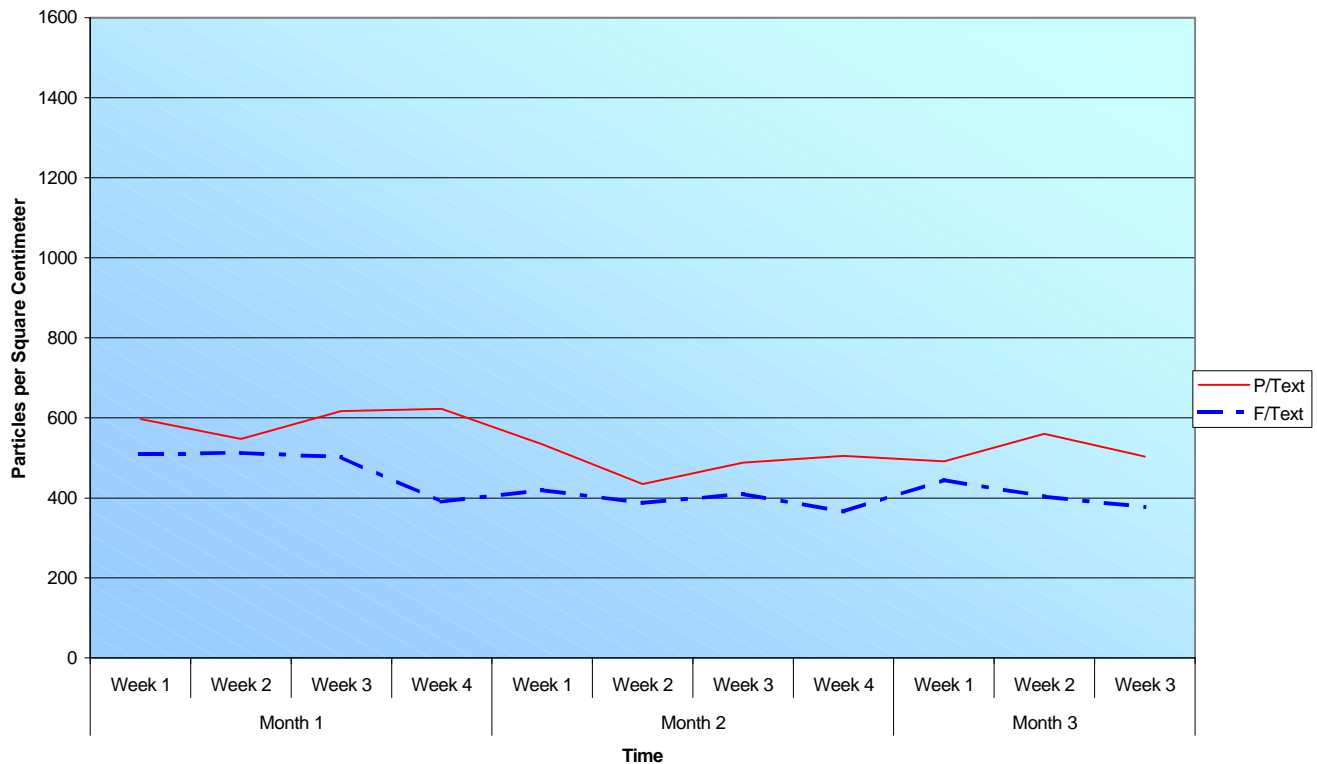
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4. GLOVE SPECIFICATIONS

Glove Brand	Sizes	Available Length (mm)	Finish	Available Colours	Environment
<i>MasterClean Protection</i>	S, M, L, XL & XXL	290 +/- 10	Palm Textured or Finger Textured	Blue or Cream	Class 1, 10 or 100 (ISO 3, 4 or 5)
<i>MasterClean Comfort</i>	S, M, L, XL & XXL	290 +/- 10 240 +/- 10	Palm Textured or Finger Textured	Blue or Cream	Class 1000 (ISO 6)
<i>MasterClean Grip</i>	S, M, L, XL & XXL	290 +/- 10 240 +/- 10	Palm Textured	Blue or Cream	Above Class 1000 (ISO 7)

5. GLOVE PERFORMANCE PROFILE - *MasterClean Protection*

5.1 Particle Counts



Particle Count Monitoring Over Time

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5.2 Extractable Ions

<i>Key Trace Elements</i>	<i>Maximum mg/gram glove (ppm)</i>
Chloride (Cl)	<100
Nitrate (NO ₃)	< 30 (ND)
Phosphate (PO ₄)	< 30 (ND)
Silica (SiO ₃)	<5.0 (ND)
NVR	ND

ND – Not Detectable

Other trace elements can be tested to meet customer's requirements.

5.3 Surface Resistance

<i>Glove Surface</i>	<i>Range</i>
Inner	7.5 – 8.8 X 10 ¹⁰
Outer	5.4 – 6.9 X 10 ¹⁰

6. PHYSICAL PROPERTIES

Minimum levels are:

<i>Properties</i>	<i>MasterClean Protection</i>	<i>ASTM Specifications</i>
Tensile Strength Before Ageing	18 Mpa	12.5 Mpa
Tensile Strength After Ageing 7 Days at 70 ^o C	18 MPa	12.5 Mpa
Elongation at Break Before Ageing	550%	500%
Elongation at Break After Ageing 7 Days at 70 ^o C	550%	400%

- Exceeds ASTM D-3578-00a – Standard Specification for Rubber Examination Gloves

7. TESTING REFERENCES

IES - RP - CC – 005 – Recommended Practice for Cleanroom Gloves

EOS/ESD S11.11-93 – Surface Resistance Test

FTMS101C – Static Decay Test

ASTM D412 – Tensile Properties of Rubbers

ASTM D573 – Accelerated Ageing for Latex (70^oC for 7 Days)

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