

**6.1. Detergents**

The detergents eliminate dirt, dust and bacteria and remove the electrostatic problems. The products help to protect the electronic components from electrostatic discharges. They can be used in many areas of the industry because of their universal characteristics.



The detergents improve the surface characteristics of electrostatic-charging materials, which means that after the application the surface will be minor charged. An additional effect is the reduction of dust on the surface. Some special products are suitable for the **clean room**.

They are easily applied on sensitive electronic equipment, walls, ceilings, carpets, fixtures, work surfaces, tools and equipment, conveyor belts, clothing and other materials.

The ingredients of the products differ from the existing surface, porosity or not porosity, dirty and very dirty, and so on. Further it is also available in customized formulations.

**6.1.1. Clean Room - detergent**

The Clean Room – detergent is a long lasting and economical formula that is sodium and chloride free while eliminating static electricity on floors, chairs, CRT screens, work surfaces, glass, plastics and other prone materials.

- filtered to less than 0.5 microns
- bacterial harmless, non-toxic, non-corrosive
- non-powdering and non-out gassing

Code	
<b>7910.106</b>	1 bottle à 1 litre
<b>7910.126</b>	1 can à 5 litres

**6.1.2. Heavy Duty**

Heavy Duty is suitable for:

- *Heavy soiled and porous surfaces*, carpets and textiles
- Sticky materials during the printing, packing or during the transport



One can cover approx. 235 ... 300 m<sup>2</sup> and will last from **weeks** to **months**, depending on the application.

Code	
<b>7960.100</b>	1 bottle à 1 litre
<b>7960.101</b>	1 can à 5 litres

Code	
<b>7960.120</b>	1 pack = 12 bottles
<b>7960.121</b>	1 pack = 4 cans

Cleaning products & devices

### 6.1.3. General Purpose

It is suitable for:

- *normal and non-porous surfaces*
- the avoidance of dust, dirt and bacteria on all surfaces and product packing
- the avoidance of electrostatic charges on surfaces of boxes, containers and trays, which are used during the process for the storage of electronic components
- the avoidance of damages or destructions of ESDS and components during the process, the transport or the repair



One can cover approx. 235 ... 300 m<sup>2</sup>.

Code	
<b>7960.500</b>	1 bottle à 1 litre
<b>7960.501</b>	1 can à 5 litres

Code	
<b>7960.520</b>	1 pack = 12 bottles
<b>7960.521</b>	1 pack = 4 can

### 6.1.4. High Tech Hand Lotion

Replenish the vital moisture on skin that is important to wrist strap performance. This static dissipative hand lotion is equipped to prevent and handle static discharge, especially in the electronics industry. High Tech Hand Lotion helps keep the skin moistened without a risk of contamination. It also complies with DOD 1686A and DOD HDBK 263. (DOD = U.S. Department of Defense; HDBK = Handbook) ⇒ new: **ANSI/ESD S20.20 1999**

Code	
<b>7970.300</b>	1 bottle à 8 oz.
<b>7970.301</b>	12 bottles à 8 oz.



**6.2. Cleaning Wipes**

**6.2.1. SW-12 Cleaning Wipes**



- ideal for use on computer screens & key-boards, office machines, telephones
- long-lasting, non-toxic, biodegradable
- helps prevent dust build up
- one-step cleaning & static control
- safe for all electronic equipment
- helps prevent systems interruptions and static discharge shocks, bacterial harmless

**Code**  
**7310.508** 1 pack = 24 individual foil wrapped wipes (5" \* 8")

**6.2.2. TW-12 „Telephone“ Cleaning Wipes**

5" \* 8" antiseptic wipes are perfect for cleaning all non-porous surfaces, helping to prevent the spread of germs and bacteria. It is Ideal for the use at home, in the office or during the travel.

**Code**  
**7311.508** 1 pack = 24 individual foil wrapped wipes (5" \* 8")



Cleaning products & devices



**Also available in the dispenser**

The cleaning wipes can be used for the cleaning and disinfection of hard, non-porous surfaces. They are especially created for the cleaning of telephones, headphones and other telecommunication equipments.

**Code**  
**7321.135** 1 pack = 135 cleaning wipes

## 6.2.3. IR-12 Hand Ink Remover 5" \* 8"

- removes ink, tone, stains and smudges from hands without soap and water
- quick and convenient clean-up
- contains lanolin so it leaves skin soft & smooth
- no greasy residue

Code

**7312.508** 1 pack = 24 individual packed wipes

## 6.2.4. Equipment Cleaning Wipes 7" \* 7"

These pre-moistened lint free wipes keep your equipment looking new. They are in a handy pop-up dispenser. They easily remove dust, dirt, grimy oils and ribbon ink from external housing of all metal and plastic equipment. Also ideal for use on work stations, file cabinets, computer covers, white boards, parts and tools. (Do not use on glass or fine woods.)

Code

**7310.707** 1 pack = 40 wipes

## 6.2.5. IW-50 Industrial Wipes 8" \* 11"

The properties are identical with the properties of the SW-12 cleaning wipes. They are only bigger than those, so they are suitable for bigger things. It is ideal for using in industrial, electronic, automotive, plastics and technical environments.

Code

**7310.811** 1 pack = 50 individual packed wipes

## 6.2.6. LF-50 Lint Free Wipes 12" \* 13"

Ideal for application of Heavy Duty / General Purpose as well as Mat & Table Top Cleaner; these low-lint, polyester-cellulose material wipes contain no dyes or binders to contaminate surfaces.

Code

**7311.213** 1 pack = 50 wipes

**6.2.7. Additional Wipes in dispensers**



**Cleaning wipes in dispensers**

**Clean & Clear Optical Wipes**

These pre-moistened wipes contain a unique solution that cleans better and keeps lenses cleaner longer. Ideal for cleaning most types of glass and plastic lenses including goggles, cameras, binoculars, microscopes, camcorders and magnifiers. It also fights fog build-up.

Code  
**7330.501** 1 pack = 135 cleaning wipes



**Cleaning Wipes (dissipative)**

Meets or exceeds military electrostatic decay criteria. This long lasting wipe prevents dust attraction, is biogredable, and is safe and easy to use. For use on all materials that are not adversely affected by water or alcohol.

Code  
**7330.501** 1 pack = 135 cleaning wipes

**6.3. Cleaning Accessories**

**6.3.1. Touch Free Dispenser**

The battery operated Touch Free Lotion/Soap Dispenser eliminates direct skin contact and increases hygiene control. Users simply place their hands under the unit. Lotion or soap is dispensed automatically, and the risk of cross contamination is avoided.

Code  
**7970.050** Touch Free Dispenser

**6.3.2. Anti-bacterial Static Dissipative Soap**

This soap is specially formulated with 0.3 % Triclosan, natural moisturizers, and proprietary additives. This helps to kill gram-positive and gram-negative bacteria, as well as clean and moisturize the skin to protect against static.

Code  
**7970.100** 1 bottle à 500 ml  
**7970.121** 1 pack = 6 bottles à 500 ml

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**6.3.3. Instant Hand Sanitizer**

The Instant Hand Sanitizer provides excellent antiseptic and sanitization without the use of water or towels. It contains 60 % ethyl alcohol to prevent bacterial transfer, yet also contains emollients to protect against dryness and skin irritation. Its gel formulation prevents drip and run-off during usage.

Code	
<b>7970.200</b>	1 bottle à 500 ml
<b>7970.221</b>	1 pack = 6 bottles à 500 ml

**6.4. Other cleaning products**

**6.4.1. Conductive brushes**

The conductive brushes are suitable for the cleaning of PCB's (hard type) and optical glasses (soft type). The grips are made of conductive material. The fibres contain carbon combinations.

Code	Sizes	Type
<b>7510.012</b>	12 mm flat	hard
<b>7510.025</b>	25 mm flat	hard
<b>7510.050</b>	50 mm flat	hard
<b>7530.100</b>	35 mm * 75 mm	hard



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**6.4.2. Sticky Mats**

- colour: white
- 1 pack = 30 sheets per mat

Code	Sizes
<b>7603.501</b>	455 mm * 1140 mm



**6.5. Conductive Bottles and Containers**

- material: dissipative, amine free
- surface resistance  $R_S$ :  $10^9 \Omega \dots 10^{10} \Omega$
- static decay time:  $< 1 \text{ s}$
- properties are humidity independent



Code	Description	Content
<b>7740.010</b>	Flux bottle – small	2 oz. / 26 gauges
<b>7740.020</b>	Flux bottle – medium	2 oz. / 20 gauges
<b>7740.030</b>	Flux bottle – large	2 oz. / 16 gauges

Code	Description	Content
<b>7740.061</b>	Solvent Container – with pump	6 oz.



Code	Description	Content
<b>7740.080</b>	Water bottle - ESD	8 oz.

Code	Description	Content
<b>7740.160</b>	Spray bottle - ESD	16 oz.
<b>7740.320</b>	Spray bottle - ESD	32 oz.



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**6.6. ESD Vacuum cleaners**

**6.6.1. ESD Vacuum cleaner „Express“**

The ESD vacuum cleaner „Express“ is an easy operating, portable cleaning product, which is especially suitable for the daily cleaning. The vacuum cleaner will be delivered with an ESD safe hose and ESD safe utensils. The complete system is grounded from the tip of the hose through the end of the power cord.



- easy operation
- replaceable cartridge filter
- standard filter, HEPA filter
- ESD utensils
- sizes: ca. 31,5 cm \* 19, cm \* 16,5 cm
- weight: ca. 1,8 kg

Code	Description
7980.002	Vacuum cleaner „Express“
7980.012	Standard filter
7980.022	HEPA filter

The **standard filter** is suitable for a 0,3 µm retention. It is used for the elimination of soot, pollen, allergens, mould, black toner and most colour toners.

The **HEPA filter** is used for **clean rooms**. It is ideal for very fine dust, colour toner, fumes, allergens, chemical spills, mould spores and other ultra fine particulates.

**6.6.2. ESD Vacuum cleaner „Supreme“**

The portable ESD vacuum cleaner „Supreme“ is made for durability and long life. Its quiet flow-through motor and sound baffles make it the quietest electronic vacuum on the market today. The delivered accessories are static conductive for maximum static protection.

Like the vacuum cleaner „Express“, **standard and HEPA filter** exist for the vacuum cleaner “Supreme”.

Code	Description
7980.003	Vacuum cleaner „Supreme“
7980.013	Standard filter
7980.023	HEPA filter

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