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Make Farnell-Newark InOne
your first choice -
search over 300,000 products at
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**Can't find the product
you are looking for?**

Cleaning Solvents

LFFR - Lead Free Flux Remover



LFFR is a fast-drying solvent cleaner specially formulated for the quick and efficient removal of lead free flux residues. LFFR will remove R, RA, RMA and No Clean flux residues associated with both lead-free and tin/lead soldering products.

NEW

- 100% ozone friendly solvent
- Non offensive odour
- Also suitable for the removal of greases & oils
- Leaves a perfectly clean, dry surface (conventional solvents often leave greasy deposits which attract dust and dirt)
- Harmless to most plastics, rubbers & elastomers

422588

Size	Mfrs. List No.	Order Code	Price Each	
400ml	LFFR400DB	109-8276	1+	12+
			24.51	22.83

NOT FOR SALE IN HONG KONG

Flux-Off® Lead-Free Flux Remover
BrushClean™ System

A powerful flux remover for high temperature, lead-free flux removal

- Engineered for removing high temperature, lead free flux
- Can also be used to remove Tin/Lead fluxes
- Flammable
- Ozone safe
- Extra strength, fast drying, evaporates quickly without leaving residue
- Non-corrosive, safe for metals
- Removes encrusted, baked on fluxes
- All-way spray valve - even sprays upside down
- Generally compatible with most materials but test on plastics - Not recommended for ABS, acrylics, polycarbonates, polystyrenes and PVC
- RoHS Compliant

NEW

Applications:

Effectively removes flux residues from Chip carriers, heat sinks, metal housings, PCBs, plugs, sockets, relays and contacts, SMD pads, solenoids and switches

417023

Size	Mfrs. List No.	Order Code	Price Each	
170g	ES897BE	959-9584	1+	12+
			25.61	23.13

NOT FOR SALE IN HONG KONG

Aero-Klene 50

Electronic Cleaning Solvent



- Safe and effective cleaning of electronic and electrical components
- Safe on plastics and rubber
- Rapid evaporation ensures no residue is left
- Ideal for use on PCB's, tape heads, electrical and electronic assemblies, business machines, transistors, relays and precision instruments



232528

	Order Code	Price Each	
Aero-Klene 50, 200ml	382-1390	1+	12+
		9.59	8.65

NOT FOR SALE IN HONG KONG

Solvent Cleaners



ULS - Ultrasolve

- Fast drying solvent blend
- Removes flux, dirt and grease
- Suitable for PCB and electronics assembly cleaning
- Safe on most plastics
- 100% Ozone Friendly

FLU - Fluxclene

- Excellent cleaner for flux, grease and general grime
- Completely residue free
- Safe on most plastics, rubbers and elastomers
- 100% Ozone Friendly

ECSP - Electronic Cleaning Solvent Plus

- Super fast evaporating solvent
- Removes grease, dirt and most fluxes
- Completely residue free
- 100% Ozone Friendly

IPA - Isopropanol

- High purity, electronics grade IPA
- Cleans PCBs and assemblies to leave a residue free surface
- 100% Ozone Friendly

Warning: All the above contain flammable contents, do not use on live circuits or near any source of ignition, use in a well ventilated area.

208673

	Mfrs. List No.	Order Code	Price Each			
Ultrasolve Cleaner 200 ML	ULS200D	298-335	1+	12+	36+	+
Ultrasolve Cleaner 400 ML	ULS400D	298-207	19.28	18.35	17.84	--
Ultrasolve Aero Brush 400 ML	ULS400DB	725-651	21.00	19.96	19.11	--
Ultrasolve Tin 1 Litre	ULS01L	298-219	35.54	33.31	31.88	--
Cleaning Solvent 200 ML	ECSP200D	521-723	13.55	12.90	12.35	--
Aero Brush	ECSP200DB	725-640	13.94	13.26	12.71	--
Cleaning Solvent 400 ML	ECSP400D	521-735	22.52	21.42	20.51	--
Aero	FLU200D	298-165	11.75	11.18	10.91	--
Fluxclene Aerosol 200 ML	FLU400D	298-177	16.07	15.27	14.93	--
Fluxclene Aerosol 400 ML	FLU400DB	725-663	17.91	17.06	16.35	--
Fluxclene Aerosol Brush	FLU01L	298-189	35.05	33.31	32.54	--
400 ML	IPA200	130-620	11.96	11.34	10.86	--
Fluxclene Tin 1 Litre	IPA400H	279-511	17.17	16.45	15.73	--
Isopropanol Aerosol 200ml	IPA01L	106-970	24.07	22.93	22.40	--
Isopropanol Aerosol 400 ML						
Isopropanol Tin 1 Litre						

NOT FOR SALE IN HONG KONG

Speciality Cleaners



LRM - Label Remover

- Removes paper labels quickly and efficiently
- Spray on, leave for five minutes and peel off
- Very stubborn labels may require multiple applications
- Test on sensitive plastics
- 100% Ozone Friendly

PRS - Printasolve

- Removes ink (solvent or oil based) from most surfaces
- High effective and economic to use
- Re-textures rubber print rollers
- 100% Ozone Friendly

ULC - Ultraclean

- Slow drying solvent blend
- 100% Ozone Friendly
- Recommended for cold cleaning

- Powerful penetrating action
- High flash point reducing risk of fire
- Non-flammable in bulk (1 Litre)

Warning: All have flammable contents, do not use on live circuits or near any source of ignition, use in a well ventilated area.

208663

	Mfrs. List No.	Order Code	Price Each			
200ml Aerosol LRM200D	451-289		1+	12+	36+	+
			10.41	9.91	9.68	--
			1+	10+	20+	+
12ml Pen	LRM12P	725-638	10.11	9.64	9.37	--
			1+	12+	36+	+
400ml Aerosol PRS400D	521-711		19.92	18.95	18.51	--
200ml Aerosol ULC200D	451-290		15.30	14.56	14.20	--
400ml Aerosol ULC400D	451-307		25.04	23.80	23.27	--
1 Litre Tin	ULC01L	279-547	35.23	33.48	32.08	--

NOT FOR SALE IN HONG KONG

Aqueous Cleansers

**SRI - Saferinse**

- Pure blend of IPA and de-ionised water for rinsing after using Safewash
- Biodegradable
- Non-flammable
- Gives final polish after tap water rinsing

Warning: Flammable propellant, do not use on live circuits or near any source of ignition, use in a well ventilated area.

SWAJ - Safewash J

- Aqueous cleaner for PCBs, jigs and assemblies
- Inhibited Safewash for use with sensitive metals
- Use with ultrasonic or pressure washers
- Cleans to within MIL specifications
- MUST be rinsed after use

SWA - Safewash

- Safewash J in convenient aerosol format
- Integral brush for ease of use
- Removes most common fluxes
- Removes dirt, grease and grime
- MUST be rinsed after use

Warning: Do not use on live circuits

SWAS - Safewash Super

- Aqueous cleaner for PCBs and assemblies
- Latest high efficiency Safewash with inhibition for sensitive metals
- Use with ultrasonic or pressure washers
- Rinses quickly and from under low set components
- Removes most 'no-clean' fluxes
- Low odour
- MUST be rinsed after use

DEI - De-ionised Water

- Recommended as the final rinse after using Safewash and a tap water rinse
- May be used for any application where hard water deposits cause a problem

208682

	Mfrs. List No.	Order Code	1+	12+	36+	+
Aqueous Safewash Aerosol 400 ML	SWA400H	451-265	21.16	20.12	19.69	--
Saferinse Solvent aerosol 400 ML	SRI400H	451-277	16.00	15.20	14.87	--
			1+	6+	12+	+
Safewash 5 Litre	SWAJ05L	299-250	62.31	59.23	57.89	--
Safewash Super 5 Litre	SWAS05L	725-687	68.85	65.49	62.73	--
			1+	6+	12+	+
De-ionised Water 1 Litre	DEI01L	891-253	11.02	10.50	10.04	--
De-ionised Water 5 Litre	DEI05L	891-265	17.32	16.48	15.76	--

NOT FOR SALE IN HONG KONG

Cleaners/Degreasers



Electro-Wash® Cleaner Degreasers are general purpose electronics and electrical cleaning products. Some can be used in ultrasonic systems. They are engineered to clean a wide variety of soils including oils, greases, oxides.

Product	Features				Cleaning Methods				
	Non-Flamm.	Fast Drying	Plastic Safe	Cleaning Strength	Aero-sol	Brushclean System	Trigger Spray	Ultra sonics	Cold Immersion
Electro-Wash PX		X	X	Xtra Strength	X	X			X
Electro-Wash PR Cleaner Degreaser		X	X	Regular Strength	X				
Electro-Wash Two Step	X			Xtra Strength				X	X

Electro-Wash® PX Cleaner Degreaser

The extra-strength universal cleaner degreaser safe for use on plastics

- Flammable
- Fast drying leaving no residue
- Safe on plastics
- Extra cleaning strength
- Available in Brushclean® System for removing stubborn soils
- All-way spray valve allows use when inverted
- Cleans hard-to-reach areas
- Available in liquid form

Electro-Wash® PR Cleaner Degreaser

The regular strength cleaner safe for use on plastics

- Flammable
- Fast drying leaving no residue
- Safe on plastics
- Regular hard-to-reach areas
- All-way spray valve allows use when inverted

Electro-Wash® Two Step Cleaner Degreaser

The regular strength cleaner safe for use on plastics

- Nonflammable
- Use Electro-Wash Cleaner Degreaser to rinse and dry surface fast or rinse water
- Extra cleaning strength
- Cleans solder paste and inks from screen and stencils
- removes conformal coatings
- Test on plastics

208706

Cleaner Degreaser	Size	Order Code	1+	12+	36+	+
ElectroWash PX aerosol	0.4l	860-347	21.22	20.15	19.27	--
ElectroWash PX	3.7	357-2821	97.14	93.18	88.73	--
ElectroWash PR aerosol	0.4l	860-360	18.33	17.58	16.74	--
ElectroWash Two-step	3.7	357-2833	97.24	93.28	88.82	--

NOT FOR SALE IN HONG KONG

Contact Cleaners



Contact cleaners remove oils, greases and oxides from contact surfaces. They restore the electrical continuity of contacts, switches, relays and connectors. Recommended for cleaning all types of electronic and electrical contact assemblies including:

- Metal or plastic embedded contacts
- Fuse blocks
- Potentiometers, Relays or Circuit breakers
- Electrical panels and Electronic controls

Products	Features			
	Non-flammable	Fast Drying	Plastic Safe	Cleaning Strength
Pow-R-Wash™ CZ Contact Cleaner	X	X	X	Regular Strength
Pow-R-Wash™ PR		X	X	Regular Strength

Pow-R-Wash™ CZ Contact Cleaner

The first non-ozone depleting, nonflammable cleaner safe for use on powered-up contacts and surrounding plastics

- Nonflammable
- Fast Drying
- Safe on plastics
- All-Way Spray Valve allows use when inverted
- Contains CROZANE™ CFC Replacement Chemistry made with HFE from 3M
- Cleans hard-to-reach areas
- Leaves no residue
- Regular cleaning strength

Pow-R-Wash™ PR Contact Cleaner

The regular-strength contact cleaner for use on plastics

- Fast Drying
- Safe on plastics
- Regular Cleaning Strength
- Leaves no residue
- Cleans hard-to-reach areas
- All-Way Spray Valve allows use when inverted

Warning: Flammable contents, do not use on live equipment

16

Electrochemicals, Sealants & Lubricants

Compliant
Non-compliant
+ Limited stock - RoHS replacement available

RoHS

224850

Mfrs. List No.	Size	Order Code	1+	12+	36+	+
Contact Cleaner 200 ML	200ml	957-045	61.33	58.83	56.00	--
Contact Cleaner 400 ML	400ml	957-057	71.56	--	--	--
Pow-R-Wash PR	400ml	860-384	18.62	17.88	17.03	--

NOT FOR SALE IN HONG KONG

Service Aids

Freeze It 20 and 25
Rapid Cooling Agent

- Rapid cooling agent for locating faults in electronic components
- Reduces component temperature to -50°C
- Non-flammable
- Instant fault finding on electronic equipment such as PCB's, transistors, resistors, condensers and intermittent dry joint connectors
- Safe on plastics, including polystyrene
- Also suitable for cooling thermally sensitive parts during soldering or calibration, shrink fitting of metal assemblies and chewing gum removal

233523

	Order Code	1+	12+
Freeze It 20, 200ml	382-1341	13.33	12.35
Freeze It 25, 400ml	382-1365	24.44	22.72

NOT FOR SALE IN HONG KONG

Airdusters and Freezers



MCF - Minimal Charging Freezer

- Freezer suitable for use on all components
- Will not induce static charge in sensitive components, e.g. memory chips
- Frost forming product allowing visual frost dissipation as a test method as well as fault eradication
- Cools to at least -50°C
- Non-flammable

EAD - Air Duster

- 100% Ozone Friendly
- Pure compressed air
- Consistent high pressure with no hand-freezing effect
- Non-flammable
- Only invert EADI200D
- Use in short bursts

Note: If the non-invertible version is inverted when in use, a liquid will be expelled resulting in a freezing effect.

FRE - Freezer

- Freezer suitable for use on all non-static sensitive devices
- Allows frost dissipation and fault eradication at low temperature as test methods
- May be used to achieve shrink fit of metal components
- May be used to remove adhesive, chewing gum etc.
- May be used as a plumber's freezer by temporarily freezing the water
- Cost effective
- Cools to at least -50°C
- Non-flammable

208722

	Mfrs. List No.	Order Code	1+	12+	36+	+
Minimal Charging Freezer Aerosol 200 ML	MCF200	891-204	20.44	19.40	18.98	--
Minimal Charging Freezer Aerosol 400 ML	MCF400	891-216	40.37	38.38	36.76	--
Freezer Aerosol 200 ML	FRE200	891-228	16.06	15.28	14.63	--
Freezer Aerosol 400 ML	FRE400	891-230	28.76	27.33	26.20	--
Invertible Invertible AirDuster Aerosol 200 ML	EADI200D	249-713	23.79	22.62	21.65	--

Mfrs. List No.	Order Code	1+	12+	36+	+
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Non-Invertible

Non-Invertible Airduster Aerosol 200 ML	EAD200D	130-631	20.70	19.69	19.24	--
Non-Invertible Airduster Aerosol 400 ML	EAD400D	249-737	26.30	25.23	24.64	--

NOT FOR SALE IN HONG KONG

EADP and GDP – High Power Airdusters



GDP400 Airduster

- High power, cost effective Airduster
- Powerful initial blast with minimal drop off
- Use to remove dust from delicate and inaccessible areas
- Non-flammable, pure compressed gas
- Do not tilt more than 60° from the vertical and use in short bursts

EADP Airduster

- Ultra high power airduster
- High pressure blast for removing particularly stubborn dust
- Pure, inert compressed gas
- Non-flammable
- Do not tilt more than 60° from the vertical

208726

	Mfrs. List No.	Order Code	1+	10+	50+	+
400g Aerosol	GDP400	130-424	27.46	24.86	22.52	--
470g Aerosol	EADP400	302-6840	26.82	25.38	24.31	--
NOT FOR SALE IN HONG KONG						

NOT FOR SALE IN HONG KONG

Airdusters



Ultrajet™ Duster & Ultrajet™ All-Way Duster

- Non-flammable
- Made with HFC-134a
- Safe on plastics
- Leaves no contaminating residue

Dusters remove dust, dirt and other dry contaminants from all kinds of surfaces. Ultrajet dusters can be used to economize on solvent usage by removing layers of dry particulate first so the solvent can work immediately on the more difficult-to-remove soils.

Dusters can be used to clean:

- Printed circuit boards
- Photographic equipment
- Off equipment
- Electronic instruments
- Contacts & connectors

- Biggest blast of any duster
- **All Way Duster** can be sprayed in any direction, even inverted, without the risk of dispensing a liquid spray that can freeze or damage sensitive surfaces

Duster product	Features	
	Power	Invertible All Way Spray
Ultrajet™ Duster	X	
Ultrajet™ All-Way Duster	X	✓
Duster	R	

R = Regular X = Extra Cleaning Strength

208699

	Size	Mfrs. List No.	Order Code	1+	12+	36+	+
Ultrajet	400ml	ES1520E	860-438	27.40	26.26	25.03	--
Ultrajet All-Way Duster	200ml	ES1620E	128-818	21.65	20.77	19.79	--
	400ml	ES1617E	153-540	24.12	23.14	22.04	--

NOT FOR SALE IN HONG KONG

Product Watch
 • FREE to all account holders
 • Notification of obsolete, end of line and end of stock items
 • Replacement or upgrade recommendations

Advanced warning of obsolete components

Prices are in Singapore Dollars and exclusive of GST.
Due to the volatile nature of certain products, prices are subject to change without notice.

Antistat and Freez-It™



Freez-It Antistat

- Non-flammable
- Leaves no residues
- Non abrasive
- Fast cooling to -50°C
- Contains no ozone depleting compounds
- Anti-static option minimises generation of static electricity
- Suitable to use as heat sink protection during soldering/desoldering and testing thermosensitive components

400ml Aerosol

Freez-It®

- Quickly lowers temperature to -51°C
- Non flammable
- Ultra-Pure formulation leaves no residue
- Nonabrasive, safe for most surfaces
- Contains no ozone depleting components
- Made with HFC134a

208701

Mfrs.	List No.	Order Code	1+	12+	36+	+
Freez It Non-Flammable 400 ML	ES15501	860-440	24.83	23.82	22.69	--
Freez It Antistat Non-Flammable 400 ML	ES15511	860-451	36.11	34.65	32.99	--

NOT FOR SALE IN HONG KONG

Rework Solder Flux - SMFL



200ml aerosol

- Quick drying aerosol flux for aiding rework of surface mount assemblies
- Use prior to desoldering to aid removal of excess solder paste from boards and resoldering new components
- Provides excellent solderability
- Non tacky, non corrosive residue can be removed using solvent cleaners
- Spray flux can also be used as an anti-tarnish, protective film on copper or tinned tracks

Warning: Flammable contents, do not use on live equipment or near any source of ignition, use in a well ventilated area.

219643

Mfrs.	List No.	Order Code	1+	5+	12+
SMFL200D		298-311	21.27	20.25	19.38

NOT FOR SALE IN HONG KONG

Gas Leak Detector Spray



- Aqueous based fluid
- Detects positive pressure gas leaks
- Foams at location of leak when sprayed on suspect area

Operating temperature 0°C to +50°C

300ml Aerosol

208664

Mfrs.	List No.	Order Code	1+	+	+	+
32030		603-934	23.34	--	--	--

NOT FOR SALE IN HONG KONG

Engineers Pen



- Spot application of glossy lacquer to labels and touching up PCB's after repair
- High performance lubricant inflammable solvent
- Offers excellent electrical, mechanical and high temperature properties

Clear Mechanical Oil Pen

- Contains Molybdenum Disulphide for enhanced characteristics

Flux Pen

- Zero halide product
- Does not leave corrosive residue
- Excellent solderability and reliability
- Contains MIL-14256E approved flux

Ultrasonic Pen

- Fast evaporating solvents leaving no residue
- Removes flux, grease and general contamination from most plastics and elastomers

208693

Mfrs.	List No.	Order Code	1+	5+	10+	+
Clear Mechanical Oil	CM012P	891-174	10.20	9.51	8.94	--
Rework Flux Pen - 12ml	SMF12P	891-186	12.33	11.64	10.68	--
Ultrasonic Pen	ULS12P	891-198	10.31	9.61	9.17	--

NOT FOR SALE IN HONG KONG

Swabs



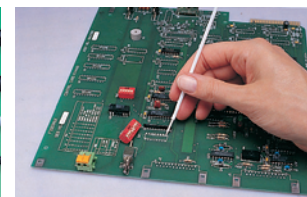
860-773

860-785

860-797

860-803

806-815



Foamtips™ and Chamois Tips™

Foamtips™ Pro - Double-end provides two cleaning surfaces. Blue scrubbing side and white foam. Bendable 152mm polypropylene handle, 100 ppi foamhead.

Foamtips™ 130 - Elongated swab with rigid head to clean fine components. Polypropylene handle, 100 ppi foamhead.

Foamtips™ 140 - Miniature swab with rigid head for hard to reach areas. Polypropylene handle, 100 ppi foamhead.

CC50 - Full sized foam head over cotton bud for extra absorbency. Wooden handle, 100 ppi foamhead.

Chamois Tips™ - Ultra-cleaned synthetic chamois material for cleaning and polishing video tape heads. ABS handle.

Microtips™

- Precision solvent and adhesive applicator
- Low particulate levels
- Compatible with most solvents

208681

50 Per Pack Type	Mfrs.	List No.	Order Code	1+	12+	24+
Double Ended FoamTips	CFP50		860-773	65.31	62.64	59.64
Foamtip 130 Swab 50 PK	CF3050		860-785	29.31	28.14	26.79
Foamtip 140 50 PK	CF4050		860-797	26.79	25.71	24.48
Foamtip 150 50 PK	CF5050		860-803	38.58	37.04	--
Chamois Tip 50 PK	CC50		860-815	56.55	54.24	51.66
Microtip 50 PK	CM502		860-827	50.79	48.75	46.41

Sealed Foam Swabs



- Economical general purpose swabs, best solvent retention
- 100 ppi medical grade foam provides excellent particle entrapment
- Open cell structure gives best solvent holding
- Swabs are free of adhesives
- Fibreless construction does not generate particles
- Applications: Rework and repair

16

Electrochemicals, Sealants & Lubricants

Compliant
Non-compliant
+ Limited stock - RoHS replacement available

RoHS

235571

Mfrs. List No.	Pack Qty.	Order Code	1+	5+	10+
41050	500	384-7019	89.67	86.73	81.51
44070	500	384-7020	95.28	90.21	86.61
44070ESD	500	384-7007	182.34	172.62	165.72

Re-Usable Syringes



- A comprehensive range of empty syringes
- Fill with grease, pastes, pre-mixed two-part materials etc to give accurate application
- 4 sizes to cover the majority of requirements



208736

Pack Quantity=10	Order Code	1+	5+	10+	+
Syringe 2 ML PK 10	130-497	12.73	12.06	11.55	--
Syringe 5 ML PK 10	130-503	15.91	15.06	14.43	--
Syringe 10 ML PK 10	130-515	22.28	21.06	20.19	--
Syringe 20 ML PK 10	130-527	25.46	24.06	23.04	--

Silica Gel Desiccant

Silica Gel Desiccant



- Non-indicating silica gel conforming to **BS2540:1991**
- Inert to most chemicals
- Prevents corrosion by absorbing high levels of moisture
- Avoid contact with bulk aqueous based fluids
- Suitable for use in any application where moisture attack is possible
- Use to protect hygroscopic powders, delicate electronic and communication equipment, metal surfaces and general items where moisture induced mould growth or corrosion is possible

208692

Size	Weight	Mfrs. List No.	Order Code	10+	50+	100+	200+
50x 100	10g	SGL010	890-698	1.40	1.35	1.29	1.17
85x 130	50g	SGL050	890-704	2.81	2.73	2.64	2.55
85x 165	100g	SGL100	890-716	3.99	3.75	3.54	3.30

Cleaning Pads, Wipes & Sprays

Wipes



- Evaporates quickly, leaving no residue
- Compatible with most plastics, glass and metals

Chempad™ Pre-saturated Wipe

- General purpose, pre-saturated, lint-free cleaning pad
- Solvent evaporates leaving no residue
- Safe for most plastics and rubber
- Removes ink, soils and other residues
- Ideal for cleaning computers, office equipment and electronic components

Optic Prep™

- Mild nonabrasive solvent
- Quickly removes dust, oils and contaminants

Controlwipes™ Dry Wipe

- Solvent resistant, high absorbency, tear resistant wipe
- Polyester cellulose blend
- Packed in Class 100 cleanroom environment
- Resistant to most solvents, alcohols and dilute acids
- Ideal for applications requiring excellent contamination control

Opticwipes™ Dry Wipe

- Soft laboratory-grade cellulose high absorbency paper
- Non-contaminating and lint-free
- High wet strength
- Solvent resistant
- For applications involving optical surfaces, lab equipment lenses and other precision instrumentation
- Ideal for applications requiring excellent contamination control

208705

50 Per Box	Mfrs. List No.	Order Code	1+	4+	12+	+
Chempad Wipes Pre saturated™	CP400	860-591	50.96	48.88	46.54	--
Optic Prep Wipes™	CP410	860-580	53.85	51.68	49.21	--
150 Per Pack			1+	6+	12+	+
Control Wipes™	C910	860-610	59.70	57.27	54.54	--
500 Per Pack						
Opticwipes Dry™	C920	860-621	69.23	66.40	63.21	--

Repair and Maintenance Sprays and Wipes



HDL - Handclens

- Ideal for use where water is not available
- Foaming hand cleanser that does not require rinsing
- Apply a small amount to hand and rub hands together to clean
- Foam turns to easily removed crumb
- Contains lanolin for moisturising and pleasantly perfumed

AFC - Anti-Static Foaming Cleaner

- Non-flammable
- Highly efficient hard surface cleaner
- Safe on plastics
- 100% Ozone Friendly
- Shake well before use

ASA-Anti-Static Spray

- Non-flammable
- Cleans and prevents static build-up
- Long lasting anti-static properties
- Totally hazard free
- 100% Ozone Friendly

Warning: Flammable contents, use in a well ventilated area.

EWI - Electrowipes

- IPA impregnated wipes for all cleaning applications
- Electronics grade IPA saturated on to lint-free cloth
- Conveniently sachet packed

- One part
- Air curing
- Red or green
- Tack-free after 10 minutes
- Adjustable for 24 hours--then becomes brittle

Warning: Flammable contents, do not use on live equipment or near any source of ignition, use in a well ventilated area.

219645

	Mfrs. List No.	Order Code	1+	12+	36+	+
HDL Aerosol 150ML	HDL150	891-241	20.79	19.66	18.85	--
AFC Aerosol 200 ML	AFC200D	626-260	5.76	5.42	5.29	--
AFC Aerosol 400 ML	AFC400D	626-272	8.61	8.19	7.87	--
ASA Aerosol 250 ML	ASA250ML	317-536	12.47	11.96	11.44	--
BLR (Red) 15 ml Bottle	BLR15BE	521-747	6.56	6.29	6.16	--
BLV (Green) 15 ml Bottle	BLV15BE	521-759	6.56	6.29	6.16	--
100 Per Box				Price Per Box		
	Mfrs. List No.	Order Code	1+	10+	20+	
Electrowipes	EWI100	725-675	62.34	58.82	56.31	

NOT FOR SALE IN HONG KONG

Prices are in Singapore Dollars and exclusive of GST.
Due to the volatile nature of certain products,
prices are subject to change without notice.

CTC – Carterclene



- Heavy duty anti-static foaming cleaner
- Removes ground in dirt and grime
- Gives long lasting anti-static properties on glass, plastic and other synthetic materials
- Minimise contact time on metals as CTC has a relatively high pH
- Shake well before use, apply and wipe with ECW025 or SW1100



Mfrs. List No.	Order Code	1+	12+	36+	+	+
Carterclene CTC400H	130-473	8.35	7.90	7.57	--	--

NOT FOR SALE IN HONG KONG

208737

Engineers' Cleaning Wipes



- Economical and manageable size cloth which can be re-used
- Packed in a self-seal gripper bag to protect against contamination
- Extremely absorbent
- High quality material with exceptional tear and wet strength
- Lint free



Mfrs. List No.	Order Code	1+	10+	20+	+
ECW025	634-931	20.61	19.50	18.69	--

208720

Contact Maintenance

CCL – Non-flammable Contact Cleaner



- Non-flammable contact cleaner
- Removes oxides and dust from all contact surfaces
- Ultra fast evaporating, hence should be applied as close to the item to be cleaned as possible
- Safe to use on live equipment
- Suitable for use where fire prevention is paramount e.g. mines, submarines etc.



Mfrs. List No.	Order Code	1+	12+	36+	+	+
CCL200	130-436	66.93	63.41	60.74	--	--

NOT FOR SALE IN HONG KONG

208725

Contact Treatment



CCS – Contact Cleaning Strips

- 20 strip pack
- Mildly abrasive card strips impregnated with high performance contact oil
- Use on points, contacts and relays

SGB – Contact Treatment Grease 2GX

- High quality, non-melting contact grease 2GX
- Reduces arcing and contact wear. Reduces millivolt drop
- Specified world-wide for automotive and domestic switch applications
- Available in aerosol (flammable) and syringe packaging

Warning: 279-493 has flammable contents, do not use on live circuits or near any source of ignition, use in a well ventilated area.

CG53A – Contact Treatment Grease 53A

- Luer Lock syringe dispenser
- New generation contact grease with excellent electrical properties
- High compatibility to plastics
- Good high and low temperature performance
- Offers low and stable contact resistance

208709

Pack of 20	Mfrs. List No.	1+	10+	30+	+
CCS Strips x 20	CCS020	317-690	5.23	5.01	4.78
Price Each					
SGB 200ML Aerosol	SGB200D	279-493	15.48	14.76	14.16
SGB 20ML Syringe	SGB20S	317-652	12.45	11.85	11.34
SGB 35ML Syringe	SGB35SL	317-664	19.95	18.96	18.15
CG53A 35ML Syringe	CG53A35SL	725-602	19.38	18.42	17.64

NOT FOR SALE IN HONG KONG

16

Electrochemicals, Sealants & Lubricants

Coatings

Conformal Coatings and Varnishes



CPL – Clear Protective Lacquer

- 200ml aerosol and 12ml felt tip pen
- General purpose coating
- Solvent removable
- High gloss
- Good humidity resistance
- Can be soldered through safely
- 100% Ozone Friendly

SRC – Silicone Removable Coating

- Solvent removable, silicone conformal coating
- May be safely soldered through
- Good adhesion
- Good humid ageing properties
- 100% Ozone Friendly
- UV trace for easy inspection

TRV – Tropicalised Varnish

- An air drying, acrylic based varnish incorporating a UV trace for inspection purposes
- Use for protecting PCBs and assemblies
- Touch dry in approximately 10 minutes
- Incorporates a fungicide to prevent attack in high humidity atmospheres
- Wide operating temperature
- Excellent electrical properties

Note: TRV - This product contains Toluene - For Professional Use Only

MR8008 – Insulating Varnish

- Solvent based, air drying polyurethane, one-part varnish
- Dipping grade for the insulation and protection of PCBs, transformers and wound components
- Touch dry in approximately 60 minutes
- Wide operating temperature
- Contains UV trace for inspection

Warning: All the above have flammable contents, do not use on live equipment or near any source of ignition, use in a well ventilated area.

Compliant
Non-compliant
Limited stock - RoHS replacement available
RoHS

208766

Mfrs. List No.	Order Code	1+	12+	36+	+
200 ML Aerosol	CPL200H	521-462	11.65	11.08	10.48
400 ML Aerosol	SRC400	891-319	36.16	34.35	33.58
500 ML Tin	TRV	958-360	24.08	22.88	21.91
250 ML Tin	MR8008B	958-372	17.00	16.15	15.47

NOT FOR SALE IN HONG KONG

Conformal Coatings

DCA/DCR – SCC3 Conformal Coating
Transparent (DCA) or RED (DCR)

- UL approved coating
- Very high chemical and solvent resistance
- Not solvent removable
- UV trace for inspection (DCA only)
- Heat cure for maximum protection
- Can be safely soldered through
- Operating temperature range -70°C to +200°C
- 100% Ozone Friendly

Warning: Flammable contents and propellant, do not use on live equipment or near any source of ignition, use in a well ventilated area.

TFCF – Fluorocoat – Thin Film Coating

- Thin film coating offering excellent moisture resistance
- Suitable for use in telecommunications and passenger compartment applications
- Applies a very thin film which breaks when connectors etc. are inserted
- Does not require labour intensive masking of sockets and other components
- Packed in handy 250ml pump spray for use in maintenance and repair
- UV trace for easy inspection

HPA – High Performance Acrylic Conformal Coating

- Conforms to MIL-1-46058C
- UV trace for inspection
- Solvent removable
- Safely soldered through
- Operating temperature range -55°C to +130°C
- 100% Ozone Friendly

Note: HPA - This product contains Toluene - For Professional Use Only

Warning: Flammable contents and propellant, do not use on live equipment or near any source of ignition, use in a well ventilated area.

208697

Mfrs. List No.	Order Code	1+	12+	36+	+
200 ML Aerosol	DCA200H	298-293	21.09	19.92	18.92
1 Litre Tin	DCA01L	725-705	182.33	173.19	169.24
200 ML Aerosol	DCR200H	298-300	22.88	21.84	20.90
200 ML Aerosol	HPA200H	298-281	20.82	19.86	19.01
1 Litre Tin	HPA01L	725-699	85.90	81.61	78.16
250 ML Pump Spray	TFCF250	891-320	52.38	49.56	47.48

NOT FOR SALE IN HONG KONG

Konform® SR



- Konform® conformal coatings are used in spray, dip tank and brush applications
- Protect PCB Components and flex circuitry from damage
- Most Konform® conformal coatings contain a UV indicator for improved QA
- Dielectric strengths of 1100 volts/mil or more

- Tough, clear transparent coating will not fragment, chip or crack
- No mixing required
- All Konform® products are plastic safe and upper ozone safe CFC/HCFC Free

Konform® SR

- Engineered for applications where flexibility and high temperature resistance are required
- Silicone coating stable from -64°C to +199°C
- High dielectric strength of 1100 volts/mil
- Easily removed with Electro-Wash Two Step or Conformal coating remover pen
- UL recognised, Mil-46058C

Konform® AR

- Designed to provide effective insulation against electrical shorts and harsh environments
- Acrylic coating stable from -59°C to +137°C
- High dielectric strength of 1200 volts/mil
- Provides excellent acid resistance
- UL recognised, Mil-46058C

Konform® UR

- Ideal for applications that require good abrasion and solvent resistance
- Urethane coating stable from -45°C to +110°C
- High dielectric strength of 1200 volts/mil
- UL recognised, Mil-46058C

Konform® UV

- UV curable in 30 seconds
- Conformal coating stable from -54 °C to +163°C
- Meets MIL-1-46058C

Product Selection Guide							
Product	Temperature Resistance	Abrasion Resistant	Organic Solvent Resistant	Acid Resistant	Flexibility	Solderability	Repairability
Konform® SR	★★★★	No	No	✓	★★★★	★★★★	★★★★
Konform® AR	★★★	✓		✓	★	★★★★	★★★★
Konform® UR	★★	✓	✓		★★	★★	★★
Konform® UV	★★	✓	✓	✓	★★	★★	★★

Warning: Flammable contents, do not use on live circuits or near any source of ignition, and use in a well ventilated area.

208702

Description	Mfrs. List No.	Size	Order Code	1+	6+	12+
Konform SR	CTSR-12	400ml	304-4270	33.31	31.98	30.45
Konform AR	CTAR-12	429ml	304-4294	32.79	31.49	29.97
Konform UV	CTUV32	946ml	304-4336	221.37	210.31	197.67

NOT FOR SALE IN HONG KONG

NSC and SCP – Shielding/Screening



NSC – Nickel Screening Compound

- 100% Ozone Friendly
- Excellent surface resistivity
- Excellent adhesion
- Fast drying
- Excellent attenuation levels

SCP – Silver Conductive Paint

- Highly conductive silver loaded resin
- Fast drying
- Ideal for track repair
- Ideal for pinpoint shielding

Warning: Both of the above products contain flammable contents, do not use on live equipment or near any source of ignition, use in a well ventilated area.

208767

Mfrs. List No.	Order Code	1+	6+	12+	+
400 ML Aerosol	NSC400H	521-450	57.52	54.67	53.40
3g Bottle	SCP03B	725-614	19.14	18.20	17.42

NOT FOR SALE IN HONG KONG

Coatings

**Conductive Pen**

Pen dispenser for drawing highly conductive silver traces, jumpers and shielding with precision control

- Quickly creates conductive silver traces on most surfaces
- Valved pen tip for easy application
- Can be soldered at low temperatures
- Dries in minutes at room temperature
- Choice of Micro for lines or Standard Tip for wider lines

Overcoat Pen

Pen dispenser for precise application of a tough protective acrylic conformal coating

- Protects conductive pen traces
- Repairs permanent solder mask
- Protects against shorting, arcing, abrasion and moisture
- Dries in minutes at room temperature
- Choice of clear or green coating

Description	Size	Mfrs. List No.	Order Code
Conductive Pen Std 1.4	8.5g	CW2200STP	604-010
Conductive Pen Micro 0.7	8.5g	CW2200MTP	604-021
Overcoat Pen - Clear	4.9g	CW3300C	604-033
Overcoat Pen - Green-Overcoat Pen - Green	4.9g	CW3300G	604-045

Warning: Both of the above contain flammable contents, do not use near any source of ignition, use in a well ventilated area.

208689

Mfrs. List No.	Order Code	1+	5+	10+	+
CW2200STP	604-010	50.86	48.78	46.44	--
CW2200MTP	604-021	50.86	48.78	46.44	--
CW3300C	604-033	34.74	33.35	31.72	--
CW3300G	604-045	34.74	33.35	31.72	--

Tamper-proof Coating

Varnistop Red 7400

LOCTITE



- Solvent based dark red marking ink for use on electronic equipment
- Excellent adhesion to metal and plastic fasteners
- Dry to touch in 5 minutes
- Used for tamper-proofing and warranty seals
- Ideal for securing trim pot settings
- Enables a visual inspection of adjustment

208752

Order Code	1+	10+	50+	+
307-2034	60.00	55.90	53.11	--

NOT FOR SALE IN HONG KONG

Heatsink Compounds

Heat Sink Compound

Silicone and Non-Silicone

Servisol



- High thermal conductivity
- Excellent contact material when mounting semi-conductor's devices onto heat sinks
- Low moisture and metallic impurity content make it suitable for a wide variety of applications within the electronics industry

- Silicone version available in handy 25gm tube
- Operational from -50°C to +200°C
- Non-silicone version packed in handy 2ml, 10ml and 35ml syringes
- Operational from -50°C to +130°C

233537

	Order Code	1+	12+
Silicone, 25gm	382-1511	5.70	5.01
Non-Silicone 2ml	382-1523	6.69	5.79
Non-Silicone 10ml	382-1535	11.33	10.24
Non-Silicone 35ml	382-1547	16.18	15.08

Silicone Heatsink Compound – DC340

DOW CORNING



100g tube

- Other applications include the filling of temperature sensing devices to improve heat transfer to sensing element

Thermal conductivity	0.42W/m.K.	Operating temperature	200°C max
Dielectric strength	21kV/mm		

Note: Not suitable for medical applications

219646

Order Code	1+	10+	50+	+
101-685	14.38	12.94	11.57	--

Thermal Management



HTCP – Non Silicone Heat Transfer Paste PLUS

- Silicone free
- High thermal conductivity – 2.5W/mK
- Wide operating temperature range -50°C to +130°C
- Non-melting and non-hardening

HTS – Silicone Heat Transfer Paste

- High thermal conductivity – 0.9W/mK
- Luer Lock syringe for hand or automatic application
- Wide operating temperature range -50°C to +200°C
- Non-melting and non-hardening

HTC – Non-Silicone Heat Transfer Paste

- Silicone free
- 35ml Luer Lock syringe and 10ml syringe dispensers
- Excellent non-creep properties
- High thermal conductivity - 0.9W/mK

HTSP – Silicone Heat Transfer Paste PLUS

- High thermal conductivity – 3.0W/mK
- Wide operating temperature range -50°C to +200°C
- Non-melting and non-hardening

208684

	Mfrs. List No.	Order Code	1+	12+	36+	+
10 ML Syringe	HTC10S	317-950	6.66	6.34	6.08	--
35 ML Syringe	HTC35S	317-962	13.52	12.87	12.32	--
35 ML Syringe	HTS35SL	891-344	12.30	11.64	11.01	--
20 ML	HTCP20S	634-920	28.60	27.20	26.03	--
			1+	5+	10+	+
50 ML Tube	HTSP50T	725-572	64.44	61.07	58.50	--



In stock and ready to despatch,
300,000 products in our Asia, US
and Europe warehouses.

300,000 products at your fingertips

Electrochemicals, Sealants & Lubricants

Compliant
Non-compliant
+ Limited stock - RoHS replacement available
RoHS

Conductive Rubber Jointing Compound



- Room temperature vulcanising thermally conductive rubber
- Thermal conductivity of 2W/mK
- Wide operating range from -50°C to 230°C (peak at 260°C)
- Use as a low strength adhesive, sealant or gasketing compound
- 75ml tube

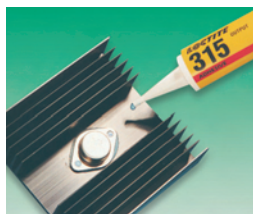


208724

Mfrs. List No.	Order Code	1+	5+	10+	+
ETCR75S	130-485	84.39	79.79	76.44	--

Thermally Conductive Adhesive – 'Output'™ 315 Self Shimming

LOCTITE



- High thermal conductivity
- Self shimming, produces a consistent 0.15mm gap
- Controlled strength for serviceability
- Eliminates the need for mechanical fasteners
- Ideal for use on heatsinks, thyristors, transistors, rectifiers, regulators etc.

25ml Adhesive + 18ml Activator

Base compound	Modified Methacrylate	Tensile shear strength	7N/mm ² (1000psi)
Colour	Blue	coefficient of thermal expansion	1.1x10 ⁻⁴ /°C
Thermal conductivity	0.815 W/m.K	Operating temperature	-55°C to +150°C
Surface resistivity	1.2 10 ¹³ Ω		

Warning: Flammable contents, do not use near any source of ignition, use in a well ventilated area**Note:** Due to shelf life, this product should be used within three months of purchase in order to maximise its performance.

208676,400985

Mfrs. List No.	Order Code	1+	+	+	+
1705052	537-020	92.60	--	--	--

NOT FOR SALE IN HONG KONG

Re-Usable Syringes



- A comprehensive range of empty syringes
- Fill with grease, pastes, pre-mixed two-part materials etc to give accurate application
- 4 sizes to cover the majority of requirements



208736

Pack Quantity=10	Order Code	1+	5+	10+	+	+
Syringe 2 ML PK 10	130-497	12.73	12.06	11.55	--	--
Syringe 5 ML PK 10	130-503	15.91	15.06	14.43	--	--
Syringe 10 ML PK 10	130-515	22.28	21.06	20.19	--	--
Syringe 20 ML PK 10	130-527	25.46	24.06	23.04	--	--

Sealants

'Silastic' RTV Silicone Adhesives

732, 734, 736, 744, 3140, 3145 & SE9187L

DOW CORNING



- 732** ● Ideal for sealing joints, wire entries and connectors, for waterproofing pumps, motors, switches and enclosures, for glass to metal bonds etc.
- 734** ● Ideal for filling crevices and voids in potting and sealing applications
- 736** ● Ideal for long term, high temperature applications
- 744** ● Ideal for electronic unit assembly, particularly those containing corrosion and vibration sensitive components
- 3140** ● Suitable for use as a conformal coating protecting corrosion sensitive components, PCB's and encapsulating small circuits.

- Meets MIL-1-46058C specifications

- 3145** ● High strength adhesive/sealant
- Good thermal stability
 - Meets MIL-1-46146B

- 9187** ● One part room temp. cure adhesive
- Low viscosity
 - Fast 'Tack Free' time at room temp.
 - Controlled volatility
 - Can be used as a medium viscosity conformal coating

Note: It is not recommended to use any of these products in medical applications

FOR SPECIFICATIONS CROSS REFERENCE CHART SEE THIS PAGE

CHM66X/208782.401031

Type	Colour	Size	Order Code	1+	10+	50+	+
732	Clear	90ml	101-700	10.65	9.45	8.94	--
	Clear	310ml	101-701	18.87	17.07	15.53	--
	White	90ml	101-702	15.94	12.45	11.49	--
	White	310ml	101-703	34.43	26.73	24.00	--
	Black	90ml	108-899	15.94	12.45	11.49	--
734	Black	310ml	108-900	34.43	26.73	24.00	--
	Clear	310ml	101-705	40.73	29.64	24.24	--
736	White	310ml	101-707	40.73	29.64	24.24	--
	Red	90ml	956-960	17.96	15.99	15.09	--
744	Red	310ml	956-971	36.63	32.64	30.81	--
	White	90ml	521-826	15.70	14.37	11.46	--
3140	White	310ml	521-838	28.40	25.92	20.73	--
	Clear	90ml	101-713	42.90	34.74	30.81	--
3145	Clear	310ml	536-738	114.47	93.90	83.07	--
	Clear	473ml	101-714	168.67	152.70	139.77	--
	Clear	90ml	537-007	63.56	56.73	51.36	--
	Clear	310ml	879-3476	143.90	137.20	133.78	--
	Grey	90ml	879-3492	66.27	62.59	61.06	--
SE9187L	Grey	310ml	879-3484	143.90	137.20	133.78	--
	Black	330ml	879-3441	92.02	87.01	84.04	--
	Clear	330ml	879-3450	92.02	87.01	84.04	--
	White	330ml	879-3468	92.02	87.01	84.04	--

Dow Corning RTV Silicone Rubber Selection

CHM210

Mfrs. List No.	732	734	736	744	3140	3145
Farnell Order Code	101-700, 101-701, 101-702, 101-703, 108-899, 108-900	101-705, 101-707	956-960, 956-971	521-826, 521-838	101-713, 536-738, 101-714	537-007
Single Part Component	Yes	Yes	Yes	Yes	Yes	Yes
Usage	General Purpose	General Purpose	High Temperature Applications	General Purpose	Conformal Coating	High Strength Adhesive/Sealant
Rheology	Non-slumping	Free Flowing & Self Leveling	Non-slumping	Non-slumping	Free Flowing	Non-slumping
Cure Mechanism	Acetox	Acetox	Acetox	Non-corrosive	Non-corrosive	Non-corrosive
Surface Compatibility	May effect some Metals e.g. Copper	May effect some Metals e.g. Copper	May effect some Metals e.g. Copper	Ideal for most surfaces	Ideal for most surfaces	Ideal for most surfaces
Specifications	—	—	FDA No.21 CFR 1772.600	—	Meets MIL-1-46058C	Meets MIL-A-46146B
Colour	Clear/White/Black	Clear/White	Red	White	Clear	Clear/Grey
Cure Schedule (@25°C)	24 Hrs. (5mm Thick)	24 Hrs. (3mm Thick)	24 Hrs. (3mm Thick)	24 Hrs. (2mm Thick)	24 Hrs. (3mm Thick)	72 Hrs. (3mm Thick)

Prices are in Singapore Dollars and exclusive of GST.
Due to the volatile nature of certain products,
prices are subject to change without notice.

Mfrs. List No.	732	734	736	744	3140	3145
Operating Temp. Range	-50°C to +200°C	-50°C to +200°C	-50°C to +200°C	-50°C to +150°C	-65°C to +200°C	-55°C to +200°C
Dielectric Strength	24kV/mm	24kV/mm	—	17kV/mm	20kV/mm	21kV/mm
Elongation	590%	350%	400%	650%	350%	675%
Tensile Strength	1.9MPa	2.0MPa	2.5MPa	2.3MPa	2.0MPa	4.7MPa
Tear Strength	5000Nm	3600Nm	—	11800Nm	3600Nm	33000Nm

Tempflex Kit – 5145



- Non-Corrosive sealant adhesive designed for use on corrosive sensitive substrates
- Single part, room temperature curing flexible material, and is also optically clear
- Adhesion to metals, plastics, ceramics and glass is excellent
- Temperature range of -55°C to +300°C
- Used for strain relieving of components, bonding PCBs into housing, sealing and gasketing electrical devices
- Meets MIL-A-46146B, Group II Type 1 approval

LOCTITE

CHM345/208753.401007

Order Code	1+	Price Each	+
307-2393	28.46	—	—

General-Purpose Silicone Sealant

VALLANCE



- Multi-purpose acetoxy silicone to BS 5889 Type B
- Suitable for sealing around wash basins, sinks and other sanitary applications
- Ideal for weather sealing around windows and door frames
- Contains fungicide
- RTV grade for electrical and industrial uses

adh16.401130

310ml Cartridge	Order Code	1+	Price Each	+
White	702-8234	5.81	—	—
Clear	702-8246	5.81	—	—

Applicator Guns



- Designed for use with 305ml and 310ml cartridges of adhesive/sealants (not supplied with gun)

Lightweight – Manufactured in a composite plastic with a metal thrust mechanism
Industrial – Manufactured from die cast alloy and steel for maximum strength

	Weight	Order Code
Lightweight	270g	108-820
Industrial	520g	146-416

CHM69X

	Order Code	1+	Price Each	+
Lightweight	108-820	8.73	7.86	7.29
Industrial	146-416	15.96	14.37	13.05

Potting & Encapsulating Materials

'Silastic' RTV Silicone Rubber – 9161

DOW CORNING



- Solvent-free easy to pour liquid
- Cures at room temperature by addition of a liquid catalyst (supplied)
- Suitable for potting and encapsulation of electronic and electrical components caulking and sealing applications
- Supplied in kit form, each containing Silastic RTV 9161 and 4% N9162 catalyst (by weight)

Cure schedule (by weight)

2% catalyst @ 25°C

Pot life –

1% catalyst	24 hrs.
1.5% catalyst	35 mins.
2% catalyst	25 mins.
3% catalyst	12 mins.
4% catalyst	7 mins.
	3 mins.

Operating temperature range

Dielectric strength

Elongation

Tensile strength

Tear strength

-50°C to +250°C

22kV/mm

150%

2.75MPa

2.2kN/m

Warning: Flammable contents, do not use near any source of ignition, use in a well ventilated area.

Note: Not suitable for medical applications

208785

	Order Code	1+	10+	50+	+
Silicone Kit 0.5kg	101-778	82.54	72.90	65.55	—
Silicone Industrial Kit 5kg	101-779	573.26	537.39	476.78	—

Encapsulants

Epoxy

Robnor resins

General Purpose

- Flame retardant epoxy resin and hardener
- Gives permanent environment protection
- Curing time can be decreased by baking between 50°C and 100°C
- Can be used in most PCB components and materials
- Contains 4.4 Diaminodiphenylmethane, a toxic material. Should be used in a well ventilated area with suitable eye/face protection and gloves

Non DDM

- Flame retardant encapsulating epoxy resin
- High electrical strength and thermal conductivity
- System gives good cosmetic finish

208790

Size	Order Code	1+	10+	50+	+
General Purpose					
50g	147-161	10.40	9.39	8.58	—
100g	147-162	12.00	10.76	9.78	—
250g	725-997	15.91	14.20	12.84	—
500g	147-163	23.50	21.00	19.08	—
1kg	148-215	41.61	36.17	33.41	—
Non DDM					
50g	537-305	10.40	9.39	8.52	—
100g	537-317	12.00	10.76	9.69	—
250g	537-329	15.91	14.20	12.84	—
500g	537-330	23.50	21.00	18.88	—
1kg	537-342	41.61	33.77	28.70	—

Polyurethane

Robnor resins

Halogen Free

- Low cost, general purpose potting and encapsulation system
- Quick cure time
- Good adhesion to a wide range of substrates
- Recommended for light electrical applications where the continuous temperature is less than 100°C

Low Viscosity

- Two part flexible encapsulant designed to give environment protection
- Does not cause component stress by shrinkage during cure
- Offers short gel time
- No exotherm, heat evolved problems
- Demonstrates good adhesion to a wide range of materials
- Ideal for flexible joints

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Electrochemicals, Sealants & Lubricants

Compliant
 Non-compliant
 Limited stock - RoHS replacement available

RoHS

208686

Size	Order Code	1+	10+	50+	+
Halogen Free					
270g	725-961	12.53	11.90	--	--
566g	725-973	16.64	15.90	--	--
1131k	725-985	22.71	21.39	20.88	--
Low Viscosity					
500g	725-950	21.41	19.14	17.06	--

Epoxy**General Purpose**

- Gloss black flame retardant encapsulant
- Low exothermic properties during cure at ambient temperatures
- Applications include potting PCB's, coils, transformers or mould casting

General Purpose – Non DDM

- Black flame retardant encapsulant
- Free of DDM or other aromatic amines
- Very low exothermic properties during cure
- Cold or hot cure system

High Temperature

- Gloss/matt black flame retardant encapsulant
- Operating temperature of up to 150°C, short term (130°C continuous)
- Low exothermic properties during cure
- Applications include potting PCB's, transformers, rectifiers, solid state relays etc.
- Gloss finish achieved when cured above 25°C

Thermally Conductive

- Gloss white flame retardant encapsulant
- Free of abrasive fillers such as alumina
- Low exothermic properties during cure
- High operating temperature in short term, 150°C (130°C continuous)
- Applications include potting PCB's, power supplies, DC-DC converters, transformers etc.
- Thermal conductivity, 1.26W/mK

208798

Size	Order Code	1+	10+	50+	+
General Purpose					
250g	108-779	21.54	20.22	19.37	--
500g	108-780	31.23	29.71	28.44	--
Non DDM					
50g	307-2149	11.36	10.86	10.40	--
100g	307-2150	13.15	12.55	12.03	--
250g	307-2162	17.41	16.64	15.93	--
500g	307-2174	25.66	24.54	23.50	--
1000g	307-2186	45.46	43.42	41.60	--
High Temperature					
250g	108-781	32.78	30.71	29.45	--
Thermally Conductive					
250g	108-783	23.34	22.17	21.26	--

Polyurethane**General Purpose**

- Black semi-rigid flame retardant encapsulant
- Good water and impact resistance
- Cured product produces very little stress
- Applications include cable jointing or potting transformers, power supplies or ferrites

High Performance

- Black encapsulant with high toughness/tear resistance
- Excellent dielectric properties
- Low water absorption and high resistance to sea water
- Applications include high quality potting, speciality cable jointing, terminations etc

Repairable

- Blue flame retardant encapsulant developed for extreme and varying conditions and temperatures
- Low shore A40 hardness allows resin to be easily broken away for component repair or fault finding

Low Viscosity

- Black hard/tough casting resin/encapsulant
- Excellent adhesion qualities to difficult substrates such as PVC, ceramics etc.
- Good dielectric properties, water and chemical resistance
- Applications include potting intricate components, radio transmitters, PCB's etc.

Low Viscosity - Flame Retardant

- Grey, semi-rigid, low viscosity flame retardant casting resin
- Excellent electrical insulation characteristics
- Good water and impact resistance
- Ideal for potting small and delicate components such as ferrites

Self Heal

- Translucent 'gel like' encapsulant with unique ability to 'self heal' when penetrated
- Enables testing of circuits and devices through resin itself or to pass wires or connections through the resin when in situ
- High water resistance and excellent electrical properties

208796

	Size	Order Code	1+	10+	50+	+
Polyurethane 500g	500g	108-785	28.84	27.04	25.90	--
Polyurethane High Performance 250g	250g	108-786	37.50	35.46	33.96	--
Polyurethane Repairable 250g	250g	108-787	32.18	30.42	29.12	--
Polyurethane Low Viscosity 250g	250g	108-788	41.70	39.46	37.80	--
Polyurethane Self Heal 250g	250g	521-760	56.02	53.11	50.90	--
Polyurethane Flame Retardant 500g	500g	307-2198	24.12	22.91	21.97	--

208715

	Robnor				Electrolube									
	Epoxy	Epoxy Non-DDM	Polyurethane Halogen Free	Polyurethane Low Visc.	Epoxy	Epoxy Non DDM	Epoxy High Temp	Epoxy Therm Cond.	Polyurethane	Low Viscosity Polyurethane Flame Retardant	Polyurethane High Perf.	Polyurethane Repairable	Polyurethane Low Visc.	Polyurethane Self Heal
	147-161 147-162 725-997 147-163 148-215	537-305 537-317 537-329 537-340 537-342	725-961 725-973 725-985	725-950	108-779 108-780	307-2149 307-2150 307-2162 307-2174 307-2186	108-781	108-783	108-785	307-2198	108-786	108-787	108-788	521-760
Mfrs. List No.	PX314ZG/50	PX700K/50G	EL171C/270	EL116F/GY	ER2002	ER2188	ER2001	ER2074	UR5547	UR5597	UR5041	UR5044	UR5528	UR5083
Mix Ratio by Weight	8.6:1	9.4:1	8.5:1	7.83:1	8.86:1	10.97:1	17.48:1	17.24:1	5.52:1	6.47:1	3.62:1	13.4:1	2.37:1	2.0:1
Mix Ratio by Volume	5.6:1	5.3:1	6.0:1	6.4:1	5.48:1	5.54:1	8.91:1	7.15:1	4.0:1	5.39:1	3.78:1	11.58:1	2.83:1	2.1:1
Curing Time @ 25°C	24 hrs	2-7 days	Overnight @ 25°C	-	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs
@ 60°C	90 mins	4 hrs	1 hour @ 80 degrees c	-	90 mins	4.5 hrs	2 hrs	4 hrs	3 hrs	4 hrs	4 hrs	3 hrs	5 hrs	-
@ 100°C	20 mins	2 hrs	-	-	20 mins	20 mins	30 mins	-	-	-	-	-	-	-
Gel Time (200g mass)	-	-	20-30 mins @ ambient	60-90 mins	-	150 mins	300 mins	300 mins	50 mins	45 mins	60 mins	40 mins	35 mins	-
Usable Life @ 25°C	1hr	2hrs	10mins	20mins @25deg	1.5-1.75hrs	60mins	2-2.5hrs	1.5hrs	20mins	20mins	20mins	30mins	20mins	90mins
Max. Operating Temperature	120°C	115°C	100°C	100°C	115°C	125°C	130°C	130°C	110°C	125°C	125°C	120°C	120°C	100°C
Deflection Temperature	50 deg c	Ambient	-	-	55deg	50deg	60deg	60deg	flexible	flexible	flexible	flexible	25deg	flexible
Electric Strength (kV/mm)	10	14.2	16.2	100	10	10	10	10	14	12	20	16	25	10

	Robnor				Electrolube									
Viscosity Mixed	200 poise	125 poise	130 poise @ 21°C	20-25 poise @ 23°C	140 poise	90 poise	80 poise	124 poise	40 poise	30 poise	25 poise	34 poise	20 poise	8 poise
Flame Retardancy	Yes to UL94V-0	Yes to UL94V-0	Yes to UL94V-0	Only when cured	Yes	Yes to UL94V-0	Yes to UL94V-0	Yes	Yes	Yes	No	Yes	No	No
Thermal Conductivity	-	1w/mk	0.42 w/mk	0.3 w/mk	0.38 w/mk	0.4 w/mk	0.4 w/mk	1.26 w/mk	0.35 w/mk	0.35 w/mk	0.20 w/mk	0.30 w/mk	0.245 w/mk	0.20 w/mk
Hardness Shore (D)	D90	D75	D50-60 After 24 hrs @ 100°C	D70 (16 hrs) D80 (200 hrs)	D75	D85	D80	D83	A85	A75	A90	A40	D57	Not measurable
Colour	Black	Black	Black	Grey	Black	Black	Black	White	Black	Grey	Black	Blue	Black	Translucent

Filler

Magic Bond



Devcon

- Permanently repairs and patches metal, wood, concrete, fibreglass and ceramics
- Can be applied underwater
- Hardens in 10 mins. back in service in 1 hour and full strength in 24 hours
- Applications include, repairing tanks and drums, patching holes in pipes, stopping leaks and repairing porosity holes in castings

Temperature Resistance	49deg (wet), 121deg (dry)
Solids	100%
Dielectric Strength (ASTM D149)	300 volts/mil
Cured hardness (ASTM D149)	75
Adhesive tensile strength (ASTM D1002)	5
Compression strength (ASTM D695)	83N/mm2
Pot life (@24°C)	20 mins
Viscosity	Putty/ hand kneadable
Colour	Green/White (changes to white after mixing)

229672

Mfrs. List No.	Order Code	1+	+	+	+
4oz stick 11600	704-0714	18.27	--	--	--

Corrosion Control

Cold Galvanising Spray



- Zinc-rich coating: solid content is 90% zinc
- Permanent coating provides long-term corrosion protection
- Ideal for both bare metal & damaged galvanised surfaces
- Smooth coating will not crack or split
- Rapid drying

Appearance: mid-grey dry coating
Apply ROCOL CORPLAN Cold Galvanising Spray and allow to cure at ambient temperatures. Once cured the coating is capable of withstanding very high temperatures. In tests the coating did not physically degrade and maintained its integrity and thus protection up to 450°C, at which point the test could not go to higher temperatures. At this temperature the only alteration was a slight discolouring of the coating, protection was maintained.

Touch dry	10 to 15 minutes	Dry Film Thickness	Typically 10µm per coat
Fully Cured	24 hours	Coverage approx.	3.2m²
Heat Resistance	450°C		

224881

Mfrs. List No.	Order Code	1+	12+	Price Each	+	+
69515	707-1840	29.41	27.82	26.85	--	--

NOT FOR SALE IN HONG KONG

Heat Protection

Hot Paint

plasti-kote



- Formulated to resist temperatures of up to 650°C
- Heat cured formula which forms a hard, long lasting finish that will not burn off, chip or flake
- Ideal for any surface exposed to very high heat

205519.401188

400ml aerosol	Order Code	1+	6+	12+	+	+
Colour						
Black	324-2109	19.69	18.23	17.23	--	--
White	324-2110	19.69	18.23	17.23	--	--
Aluminium	324-2122	19.69	18.23	17.23	--	--
Blue	324-2134	19.69	18.23	17.23	--	--

NOT FOR SALE IN HONG KONG

Laquer

Clear Acrylic

plasti-kote



- Durable all-weather coating
- Gives a transparent, flexible film
- Watertight and will not yellow
- Protects and enhances other finishes e.g. fluorescent coatings
- Effective in insulating electrical systems

Electric Resistance	100hm/sq
Dielectric Strength	800V/m
Touch Dry	20 Minutes
Fully Dry	1 hour
Heat Resistance	120°C

205492.401187

500ml aerosol	Order Code	1+	6+	12+	+	+
Mfrs. List No.						
795	711-9549	19.50	18.53	17.62	--	--

NOT FOR SALE IN HONG KONG

Lubricating Equipment - Grease

Heavy Duty Grease Gun



Grease Gun 120, 550, 60

- High pressure grease gun up to 5800 psi
- Will accept cartridges or bulk grease
- Supplied with delivery table and 4 jaw coupler
- Extension hoses and hydraulic coupler available separately

TMM317X

	Mfrs. List No.	Order Code	1+	4+	20+	40+
Grease Gun	6270	629-959	42.66	38.40	35.76	30.45
Flexi Hose 11 500	62703	629-960	14.43	12.99	12.27	11.55
Flexi Hose 8 330	62702	629-972	8.85	7.98	7.53	7.08
4 Jaw Coupler	62704	629-984	4.98	4.47	4.23	3.99

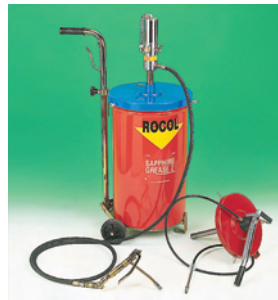
Side Lever Grease Gun



- Rigid delivery tube and hydraulic connector
- Suitable for all standard greases
- 500gr. Bulk Fill or 400gr. Cartridge. Pressure Capability 7500psi(500bar)



Grease Pumps



Portable Grease Lubrication Unit

- List No. 55-1172 (Order Code 725-7922) suitable for standard 12.5kg Grease kegs
- Includes lever operated hand pump, steel drum lid, flexible hose and grease nipple connector. Output 2.5gr. per stroke. Max. Pressure 4000psi (260 bar)
- Ideal for site, farm or factory use



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Electrochemicals, Sealants & Lubricants

Pistol Grip Grease Gun



- Hand gun lightweight Operation 120gr capacity. 7500 psi (500 bar)
- Rotatable Steel tube and 4 Jaw hydraulic connector



Grease Gun Accessories



Description	Mfrs. List No.	Order Code
Grease gun hose 9" rubber	RF9	725-7818
Grease gun hose 12" rubber/polymer	RF12/VS	725-7820
Grease gun hose, 12" rubber	RF12	725-7831
Grease gun hose 18" rubber	RF18	725-7843
Grease gun rigid tube, 6" tube steel	SRT6	725-7855
Grease gun connector, hydraulic	HC5	725-7867
Grease gun connector, hydraulic HD	HC1	725-7879
Grease gun connector, hook on	HOC1	725-7880
Grease gun connector, slide on	SOC5	725-7892
Grease gun connector, side on jointed	SOC2	725-7909
Grease gun connector, conical	CC1	725-7910



Mfrs. List No.	Order Code	1+	5+	10+	+
RF9	725-7818	12.24	10.17	9.18	--
RF12/VS	725-7820	8.40	6.96	6.30	--
RF12	725-7831	13.89	11.52	10.41	--
RF18	725-7843	19.50	16.20	14.64	--
SRT6	725-7855	4.65	3.87	3.48	--
HC5	725-7867	4.14	3.45	3.12	--
HC1	725-7879	12.00	10.80	9.96	--
HOC1	725-7880	7.80	6.48	5.85	--
SOC5	725-7892	7.80	6.48	5.85	--
SOC2	725-7909	20.85	17.31	15.63	--
CC1	725-7910	5.25	4.35	3.93	--

Air Operated High Pressure Grease Pumps Kits

- List No. GE13020/GE 13050 (Order Codes 725-7934,725-7946) suitable for use with standard 12.5kg and 50 kg grease kegs respectively. Pump pressure ration 50:1. Grease delivery 500gr per minute
- The 12.5kg kit comprises; Pump, drum cover, 3 metre rubber hose, grease control valve and "z" swivel
- The 50kg kit has the same components but also includes a robust trolley for maximum mobility

Operation	Mfrs. List No.	Order Code	1+	5+	10+	+
12.5kg, Lever	55-1172	725-7922	156.00	140.40	129.48	--
12.5kg, Air	GE13020	725-7934	929.07	--	--	--
50kg, Air	GE13050	725-7946	1,113.21	--	--	--

Lubricating Equipment - Oil

Polythene Measures and Funnels



- Unaffected by Oil, petrol, diesel, paraffin, anti-freeze, brake fluid, battery acids and other chemicals
- Measures are fast pouring without surge, are calibrated in Litres and Pints, and come with dust caps and lids
- Funnels have flexible extension spouts and integral filters, moulded in hand grip and anti-splash rim and lid

	Mfrs. List No.	Order Code	1 +	5 +	10 +	+
1L Measure	MF10P	725-7971	10.20	9.18	8.46	--
2L Measure	MF20P	725-7983	12.90	11.61	10.71	--
5L Measure	MF50P	725-7995	21.60	19.44	17.94	--
7.5" Funnel	FS7.5P	725-8008	12.30	11.07	10.20	--
9" Funnel	FS9P	725-8010	14.10	12.69	11.70	--

Machine Shop Lubricants - Reaming, Tapping & Drilling

RTD Compound



- Extends tool life
- Improves surface finish
- Allows increased removal rates
- Reduces production costs
- Suitable for all metals including hardened steels, nimonics & titaniums

Rocol RTD compound is a soft paste for use in reaming, tapping, drilling and other cutting operations. Containing extreme pressure additives, this compound significantly reduces friction, giving superb cutting performance. Apply directly to the tool or workpiece.

Mfrs. List No.	Order Code	1+	+	+	+	+
500g Tin	53023	706-3453	25.02	--	--	--

Light Oils

3-in-One



- 3-in-one multi-purpose oil
- Cleans, lubricates and prevents rust
- Suitable for general use
- 100ml and 200ml flexi cans supplied with plastic spout
- 725-080 contains (CO₂)

lub72/221123

Container	Order Code	1 +	12 +	36 +	+
100ml Flexi Can	725-067	3.75	3.54	3.53	--
200ml Flexi Can	725-079	5.97	5.70	5.55	--

Lubricants

Multi-Purpose – 'Superlube'®
Synthetic Lubricant with Teflon®

LOCTITE



- Synthetic formulation – provides predictable viscosity and reliable film strength at high temperatures
- Contains anti oxidants and rust inhibitors to protect against moisture and corrosion
- Odourless, clean and non staining
- Excellent dielectric properties, prevent tracking
- Excellent thermal and oxidation stability

The oil is available in either a 7ml precision dispenser or 357ml Aerosol. Grease is supplied in 85g plastic tube.

Operating temperature
-23°C to + 176°C (260°C short term)
-54°C to + 176°C (Grease) (260°C short term)

208678

Oil	Mfrs. List No.	Order Code	1 +	12 +	36 +	+
7 ML Dispenser	2105021	537-147	10.83	10.29	9.72	--
375 ML Aerosol	2105001	537-160	25.05	23.76	22.50	--
Grease						
85g Tube	2105011	537-159	14.76	14.01	13.26	--
400g Tube	2105012	307-2472	29.88	28.38	26.97	--

Moisture Repelling Lubricants

WD40 Penetrating Lubricant



- General purpose light lubricant/cleaner
- Repels moisture
- Good penetrating properties
- Silicone free making it suitable for use on electrical equipment
- Helps loosen corroded metal nuts, bolts, linkages, hinges etc
- High surface attraction to metal
- Capable of lifting and removing old grease and grime
- Leaves metal coated with a protective film to prevent rust and corrosion
- May effect some plastics
- Aerosol supplied with extension tube to reach normally inaccessible areas
- Supplied as 200ml and 400ml aerosols and 5 litre bulk pack with spray applicator
- 108-432 and 726-850 contain CO₂

Warning: Flammable contents and propellant, do not use on live equipment or near any source of ignition, use in a well ventilated area.

208795

	Order Code	1 +	12 +	36 +	+
200 ML	726-850	4.26	3.81	--	--
400 ML	108-432	7.56	7.26	6.99	--
5 Litre + Spray	726-862	46.50	44.85	43.35	--

Silicone Compound – DC4

Replaces MS4

DOW CORNING



- Smooth silicone grease like material
- Maintains relatively constant consistency over operating temperature range
- Excellent dielectric properties
- Highly water repellant
- Used as filling or coating to exclude moisture or prevent electronic leakage under damp conditions in electronic equipment

- Can be used to lubricate passage of wiring

Dielectric strength 16kV/mm Operating temperature -50°C to +200°C

Note: Not suitable for medical applications

208765

Order Code	1 +	10 +	50 +	+
537-019	10.80	10.05	9.81	--

Electrochemicals, Sealants & Lubricants

16

In stock and ready to despatch,
300,000 products in our Asia, US
and Europe warehouses.

300,000 products at your fingertips

Compliant
Non-compliant
Limited stock - RoHS replacement available

RoHS

