

# Kemet

## DIAMOND PRODUCTS



Kemet Diamond Products and Lapping Plates are manufactured by **Kemet International Ltd** whose quality system is registered by BSI. BSI Certificate of Registration No. Q 05919  
BS EN ISO 9002 : 1994

## Kemet Diamond Products

A wide range of standard and special Diamond Products formulated and manufactured in our quality controlled laboratories. Each Kemet Diamond Product is a special blend of Diamond Powder with a specific grading and concentration in a chemical carrier to give the optimum:

- ◆ Stock removal and surface finish.
- ◆ Ease of cleaning.
- ◆ Temperature resistance.
- ◆ Lubricity to prevent drying out.



We use only the best quality virgin Diamond Powder and high purity chemicals in Kemet Diamond Products.

Most Kemet products are biodegradable.

- ◆ **Diamond Grading** - The exceptionally close grading standards developed by us exceed many international standards and guarantee Kemet Diamond Products are manufactured to the closest tolerances.
- ◆ **Quality Control** - Microscopic and computer analysis of the Diamond Powder ensures that it is exactly the correct grading and shape to maximise cutting performance.
- ◆ **Consistency of Performance** - Manufactured to BS EN ISO 9002 Quality Assurance standards. Our guarantee that the quality will be consistent.
- ◆ **User Friendly** - Manufactured from high purity chemicals - safe to use and friendly to the environment.

## Special Products

With changing technology, new Diamond Products are continually being developed to meet specific requirements. These products may well incorporate different types of Diamond to suit the application, e.g. Synthetic Monocrystalline, Polycrystalline or Natural Powder, suspended in unique chemical carriers. Our laboratories are available to help and develop formulations specific to your needs.

KEMET DIAMOND COMPOUNDS		
Micron Size	Mesh	Colour
0.1	140,000*	
0.25	25,000*	
1	14,000*	
3	8,000*	
6	3,000*	
8	1,800*	
14	1,200*	
25	600	
45	300	
60	230	
90	170	

\*Estimated



### Liquid Diamond

Our range of Kemet Liquid Diamond products are available as oil soluble, water soluble or as emulsions. The chemical composition of the carrier fluids is carefully controlled to ensure that they are compatible both with the Lapping Plate and the components being lapped.

- ◆ Optimum viscosity and chemical composition of each Liquid Diamond Product gives fast stock removal with the ability to produce superfine surface finishes.
- ◆ Suitable for dispensing with the Kemet Electronic Dispensing System thus eliminating wastage and reducing lapping costs.
- ◆ Specially formulated Liquid Diamond Products enable parts to be easily cleaned.



### TYPE K LIQUID DIAMOND

An excellent, general purpose, low viscosity oil/water emulsion suitable for most applications.

	Type-Micron	400g			2000g		
		Standard	Strong	Extra Strong	Standard	Strong	Extra Strong
		Code	Code	Code	Code	Code	Code
<b>A</b>	K-1/10	211001	211021	211041	211080	211102	211121
	K-1/4	211002	211022	211042	211081	211103	211122
	K-1/2	211003	211023	211043	211083	211104	211123
	K-1	211004	211024	211044	211084	211105	211124
	K-2	211005	211025	211045	211082	211101	211125
	K-3	211006	211026	211046	211086	211106	211126
	K-4.5	211007	211027	211047	211087	211107	211127
<b>B</b>	K-6	211008	211028	211054	211088	211108	211128
	K-8	211009	211029	211049	211089	211109	211129
	K-10	211010	211030	211050	211085	211110	211130
	K-14	211011	211031	211051	211091	211111	211131
<b>C</b>	K-25	211012	211032	211052	211092	211112	211133
	K-45	211013	211033	211053	211093	211113	211134

**A** = Final Polishing    **B** = Lapping & Prepolishing    **C** = Rapid Stock Removal

Kemet Liquid Diamond Products are normally supplied colourless.

Special Diamond Suspensions with Monocrystalline, Polycrystalline or Natural Diamond can be supplied to suit specific applications.

### TYPE WA LIQUID DIAMOND

Water soluble Liquid Diamond, recommended where lapping/polishing must be carried out in the absence of oil based materials.

	Type-Micron	400g			2000g		
		Standard	Strong	Extra Strong	Standard	Strong	Extra Strong
		Code	Code	Code	Code	Code	Code
<b>A</b>	WA-1/10	214001	214021	214042	214071	214102	214121
	WA-1/4	214002	214022	214043	214072	214104	214122
	WA-1/2	214003	214023	214044	214073	214105	214123
	WA-1	214004	214024	214045	214074	214106	214124
	WA-2	214005	214026	214046	214075	214107	214125
	WA-3	214006	214027	214047	214076	214108	214126
	WA-4.5	214007	214025	214048	214077	214109	214127
<b>B</b>	WA-6	214008	214028	214049	214078	214080	214128
	WA-8	214009	214029	214050	214081	214101	214129
	WA-10	214010	214030	214051	214082	214110	214130
	WA-14	214011	214031	214052	214083	214079	214131
<b>C</b>	WA-25	214012	214032	214053	214084	214103	214132
	WA-45	214013	214033	214054	214085	214111	214133

**A** = Final Polishing    **B** = Lapping & Prepolishing    **C** = Rapid Stock Removal

### TYPE O LIQUID DIAMOND

Low viscosity oil soluble Liquid Diamond with enhanced cleaning properties.

	Type-Micron	400g			2000g		
		Standard	Strong	Extra Strong	Standard	Strong	Extra Strong
		Code	Code	Code	Code	Code	Code
<b>A</b>	O-1/10	216001	216021	216041	216082	216102	216132
	O-1/4	216002	216022	216042	216083	216103	216133
	O-1/2	216003	216023	216043	216084	216114	216134
	O-1	216004	216024	216044	216085	216104	216135
	O-2	216005	216025	216045	216081	216105	216136
	O-3	216006	216026	216046	216086	216106	216137
	O-4.5	216007	216027	216047	216087	216108	216138
<b>B</b>	O-6	216008	216028	216048	216088	216107	216139
	O-8	216009	216029	216049	216089	216109	216140
	O-10	216010	216030	216050	216093	216110	216141
	O-14	216011	216031	216051	216092	216111	216142
<b>C</b>	O-25	216012	216032	216052	216090	216112	216143
	O-45	216013	216033	216053	216094	216113	216144

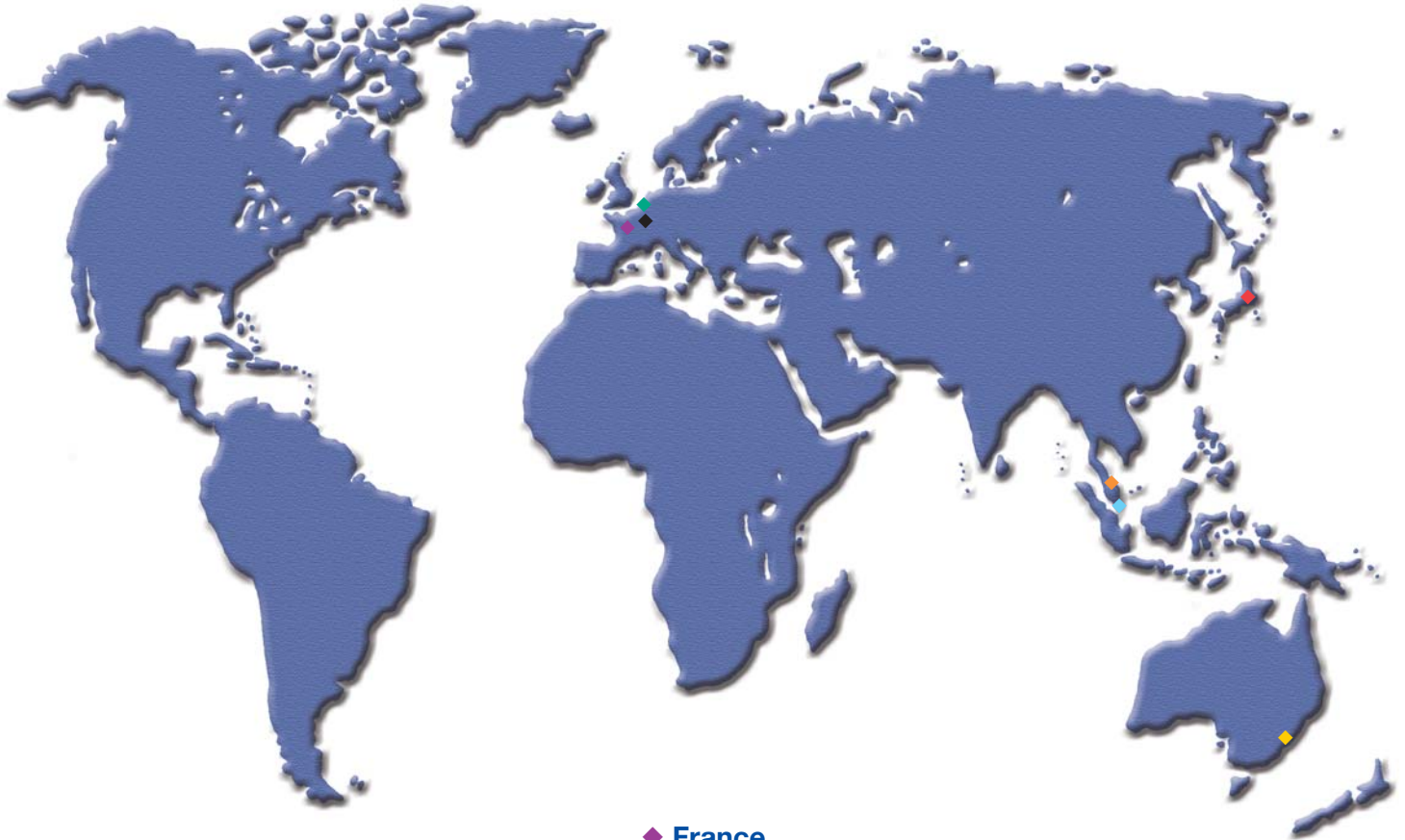
**A** = Final Polishing    **B** = Lapping & Prepolishing    **C** = Rapid Stock Removal



# Kemet

the world over

## Kemet International Ltd. Subsidiary Companies



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Kemet Europe B.V.

◆ **Belgium Luxembourg**

Kemet Europe B.V.B.A.

◆ **France**

Kemet Europe S.A.R.L.

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Kemet Far East Pte Ltd

◆ **Malaysia**

Kemet Precision (M) SDN BHD

◆ **Japan**

Kemet Japan Co Ltd

◆ **Australia**

Kemet Australia Pty Ltd

**Kemet Products are available through a Worldwide  
Network of Authorised Distributors in**

**Europe  
Asia**

**Africa  
U.S.A.**

**Middle East  
Australasia**

**Kemet**

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