

Fine Silver Jewellery

Precious Metal Clay



Metal Clay is a new and unique material suitable for both GCSE and A Level Design & Technology, and Art courses.

Precious Metal Clay - Silver

Precious Metal Clay (PMC) is a modern material and already revolutionising what jewellers and designers can create in solid silver without the need for casting equipment. Despite its name, Precious Metal Clay is not 'clay' at all, but a paste made from fine ground particles of pure silver, organic binder and water. It works like traditional clay so can be moulded and sculpted in the usual way, or reduced with water into a 'slip' consistency for joining PMC pieces together, or filling small cracks.

The 'magic' happens when the design is fired. The water evaporates and the organic binder burns away leaving a 99% pure solid silver piece. As such, it can be hallmarked as Fine Silver and (if needs be) can be silver-soldered. Care needs to be taken with any heat process like this, but the materials themselves are non-toxic.

For small projects, firing can be done with a torch and only takes a couple of minutes. Larger pieces should be kiln fired for even heating.

TechSoft are delighted to offer not only the PMC3 silver clay, but also the new PMC Flex silver clay which has an even longer working time in its 'clay' state – ideal for student work. Both types can be fired with either a torch or a kiln.

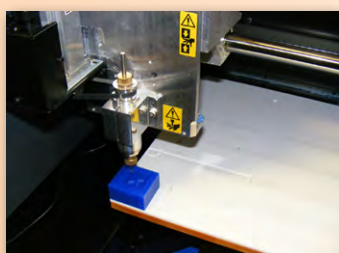
Once fired PMC appears white (the natural colour for silver) and must be polished. A stainless-steel brush will achieve a fine matt finish which can then be worked into a high lustre using a burnisher or polishing mop. Even easier is to polish by tumbling in a barrel polisher/tumbler with water, a little soap and some stainless steel shot. This technique has the added advantage of work-hardening the silver to strengthen it – important for delicate items such as rings.

Creative Metal Clay – Bronze and Copper

Creative Metal Clay (CMC) is similar to PMC but contains bronze or copper instead of silver. As such, it is a cheaper alternative – ideal for school use where budgets may be tight.

Use in Education

TechSoft are always looking for new and innovative products to help students get even more benefit from our CAD/CAM resources. These metal clays provide an excellent opportunity for creating 'clever' projects of high-value using laser-cut or milled 2D moulds. 3D moulds can be created using even our smallest CNC milling machine and softer materials such as modelling wax (see page 91) makes an ideal mould-material. Projects are likely to be small so costs can be controlled and throughput can be manageable for individual or groups of students. By using CAD/CAM for mould making, designs can be thoroughly checked in CAD and any number of moulds can be made using small amounts of cheaper material before committing to the metal clay. Metal clay is an excellent material for free-hand modelling but the use of moulds allows for tighter control and limits the chance for wastage.



The chosen design is created in 2D Design, SolidWorks or taken from a 3D scanned image. Any TechSoft/Roland CNC mill is then used to produce a mould or pattern. In this case a pattern is being milled from machining wax.



A flexible mould is produced from the pattern by hand-forming moulding compound around it. The compound sets quickly making for uninterrupted progress.



PMC3 is pressed into the mould, allowed to dry, carefully removed, and then thoroughly dried in a warm place before torch or kiln firing. This model has simply been brush-finished and awaits burnishing and polishing.

Prices £*

*See Pricing Information on page 2

Starter Kits

PMC-KITSTARTB	Precious Metal Clay Basic Starter Kit (inc. PMC3 6.3g, Badger Balm (release agent), Paintbrush, PMC Workmat with sizing scales, Teflon sheet, Bits & Bobs Mould H1, Sandpaper, Basic Hand Drill, 2 Jump Rings, Necklace cord, Kiln firing voucher, Instructions)
PMC-KITSTARTP	Precious Metal Clay Super Starter Kit (inc. PMC3 9kg, Badger Balm (release agent), Tweezers, 2 1.5 Spacers, Roller, Claychaper, Paintbrush, Workmat with PMC sizing, Teflon sheet, Sandpaper, Rubber Block, Stainless Steel Brush, Torch, Torch Block, Metal Burnisher, Circle Cutter, Jump Rings, Necklace Cord, Mini Texture Mat, 3 Fire Proof Gemstones, Instructions)

Handprinting Equipment

PMC-KITHF1	Hand and Foot Printing Kit (inc. inkless wipe and 2 handprinting sheets - refill for PMC-KITH)
PMC-KITPHOTO	Photopolymer Kit exc. Lamp (Contains 2 photopolymer plates each 100x80mm, backing board, foam and glass, soft scrubbing brush and full instructions.)
PMC-KITPHOTO2	Photopolymer Kit with Lamp (Contains 2 photopolymer plates each 100x80mm, backing board, foam and glass, soft scrubbing brush and full instructions.)
PMC-REFILPHOTO	Photopolymer Refill (2 off 100x80mm plates)

Support Materials

PMC-MC-100	Moulding Compound 100g (2 x 50g)
PMC-MC-300	Moulding Compound 300g (2 x 150g)
PMC-BALMBADG	Badger Balm - Natural Scent (0.75oz)

Bronze Clay

PMC-CLB-50	Creative Bronze Clay (50g)
PMC-CLB-100	Creative Bronze Clay (100g)
PMC-CLB-200	Creative Bronze Clay (200g)
PMC-SYRINB10	Creative Bronze Clay Syringe 10g

Creative Copper Clay

PMC-CLC-50	Creative Copper Clay (50g)
PMC-CLC-100	Creative Copper Clay (100g)
PMC-CLC-200	Creative Copper Clay (200g)
PMC-SYRINC10	Creative Copper Clay Syringe 10g

Silver Clay

PMC Flex - NEW, Ideal for schools with its longer working time

PMC-CLF-5	Silver Clay, PMC Flex (5g Silver)
PMC-CLF-15	Silver Clay, PMC Flex (15g Silver)
PMC-CLF-30	Silver Clay, PMC Flex (30g Silver)
PMC-CLF-60	Silver Clay, PMC Flex (60g Silver)

PMC3

PMC-CL3-6	Silver Clay, PMC3 (6.3g Silver)
PMC-CL3-9	Silver Clay, PMC3 (9g Silver)
PMC-CL3-16	Silver Clay, PMC3 (16g Silver)
PMC-CL3-25	Silver Clay, PMC3 (25g Silver)
PMC-CL3-50	Silver Clay, PMC3 (50g Silver)
PMC-PASTE	Silver Clay, PMC3 Paste

Cutters and Moulds

PMC-CUTDIA6	Pk of 6 Diamond Cutters
PMC-CUTHRT6	Pk of 6 Heart Cutters
PMC-CUTOV6	Pk of 6 Oval Cutters
PMC-CUTSQ6	Pk of 6 Square Cutters
PMC-CUTRT6	Pk of 6 Rectangular Cutters
PMC-PLATEBR4	4 Brass Plates (chips, beech, pebble and wave)
PMC-MOULDBB3	3 Bits 'n' Bobs Moulds
PMC-MOULDS5	Seashore Mould
PMC-MOULDORC	Orchid Mould

Accessories

PMC-TORCHSI	Torch - Self Ignition & Lock
PMC-TORCHBL	Torch Block
PMC-BRUSHSSW	Stainless Steel Wire Brush - Std Bristle
PMC-BRUSHBRL	Brass Brush (long bristle)
PMC-PICKLEAN1	150g Picklean (for removing firescale from metals such as copper, bronze and silver)
PMC-SANDP5	Sandpaper (Pack of 5)
PMC-MATRUB6	6 Rubber Mats - Square
PMC-TOOLC	Clean up / Carving Tool
PMC-TOOLWIP2	Clay Shaper
PMC-BURNMET	Metal Burnisher
PMC-KITTUMB	Tumbler Kit (includes Mixed Stainless Steel Shot & Tumbler Soap)
PMC-SYRIN	Syringe
PMC-SHEETSQ	PMC+ sheet (square)
PMC-SPROLL	Spacer & Roller Set
PMC-MAT	Work Mat
PMC-SHEETTEF5	Pk of 5 Telfon Sheets
PMC-BRUSHPNT2	Set of 2 Paint Brushes
PMC-DRILLH	Hand Drill Set
PMC-DISP1	Olive Oil Dispenser