

All prices include GST

Clay Prices

Clayworks 10kg	Colour Oxidation	Colour Reduction	Mesh	Shrinkage	Firing range	Price
SCHW School White	White	N/A	60	6%	1100c	\$ 14.00
SCHR School Red	Warm Terracotta	N/A	60	6%	1100c	\$ 14.00
MTC Medium Terracotta	Light Terracotta	N/A	60	6%	1080-1120c	\$ 16.90
CTC Fine Terracotta	Warm Terracotta	N/A	80	6%	1080-1140c	\$ 19.00
LGH Stoneware	Buffy grey	Mottle grey	60	12%	1240-1320c	\$ 15.00
RGH Stoneware	Grey brown	Dark brown	60	13%	1240-1320c	\$ 16.00
YG Stoneware	Coffee sandstone	Dark sandstone	45	13%	1240-1320c	\$ 17.00
CTS Stoneware	Sandstone	Dark sandstone	30	13%	1240-1320c	\$ 17.00
JB3 Stoneware	White	White grey	120	11%	1240-1300c	\$ 16.00
JB1 Porcelain/stoneware	White	White grey	120	11%	1240-1300c	\$ 21.00
TMK Porcelain Stoneware	White	White grey	fine	12%	1240-1300c	\$ 19.00
SP Studio Porcelain	White	White grey	120	12%	1240-1300c	\$ 18.00
SI Southern Ice Porcelain	Very White!!	Translucent	fine	14%	1260-1300c	\$ 41.00
CI Cool Ice Porcelain	Very White	White	fine	6%	1180-1220c	\$ 41.00
RSF Woodfiring Stoneware	Cream	Various flashings	16	11%	1250-1320c	\$ 21.90
SF Sculptural Fine	Sandstone	Dark sandstone	30	10%	1060-1300c	\$ 17.50
SW Sculptural Warm	Warm terracotta	Dark brown	30	11%	1060-1300c	\$ 17.50
SC Sculptural Coarse	Sandstone	Dark sandstone	16	10%	1060-1300c	\$ 17.50
Kagero (Paul Davis)	Buff	Variable results			1350c	\$ 19.00
WHC White Hand building	Vivid white	N/A	30	6%	1080-1120c	\$ 19.00
MFQ Mid Fire Quartz	White	White grey	120	10%	1160-1250c	\$ 20.00
PCE Paperclay Earthenware	White	N/A	60	8%	1100c	\$ 17.95
TCPCL Terracotta Paperclay	Warm terracotta	N/A	60	8%	1100c	\$ 17.95
SIPC Southern Ice Paperclay	Very White	Translucent	fine	14%	1260-1300c	\$ 41.00

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Keans 12.5kg	Colour Oxidation	Colour Reduction	Mesh	Shrinkage	Firing range	Price
#37 Earthenware	White	N/A	100	10%	1080-1100c	\$ 21.00
Red Terracotta	Rich terracotta	N/A	100	8%	1080-1100c	\$ 20.90
White Raku	White	Light grey	60	12%	1100-1300c	\$ 19.90
Raku T	Buff	Chocolate	60	12%	1000-1300c	\$ 17.90
Special K	White	Grey	coarse	12%	1100-1300c	\$ 23.90
# 33 Stoneware	Off white, little specks	Grey w chocolate speckle	60	13%	1300c	\$ 20.90
# 9 Stoneware	Deep grey	Dark chocolate	60	15%	1300c	\$ 20.90
# 7 Stoneware	White	Grey	100	14%	1300c	\$ 20.90
# 5 Stoneware	Pale cream	Light grey with fleck	60	14%	1300c	\$ 20.90
# 5B Stoneware	Creamy beige	Light grey with fleck	coarse	14%	1300c	\$ 20.90
Porcelain	White	White	100	13%	1300c	\$ 21.90
Flash	Buff	Dark buff with flashing	200	13%	1300c	\$ 20.90

Keans 10kg	Colour Oxidation	Colour Reduction	Mesh	Shrinkage	Firing range	Price
# 37 Earthenware Paperclay	White	N/A	100	8%	1080-1100c	\$ 19.90
Terracotta Paperclay	Terracotta	N/A	100	12%	1080-1100c	\$ 19.90
# 7 Stoneware Paperclay	White	Grey	100	12%	1300c	\$ 19.90
White Raku Paperclay	White	N/A	60	12%	1000-1300c	\$ 19.90
Porcelain Paperclay	White	Translucent when thin	100	14%	1300c	\$ 19.90

Feeneys 12.5kg	Colour Oxidation	Colour Reduction	Mesh	Shrinkage	Firing range	Price
BRT Buff Raku Trachyte	Buff	Dark with speckles	coarse	12%	1080-1300c	\$ 16.90
BRS Buff Raku Sand	Buff	Dark with Speckles	coarse	12%	1080-1300c	\$ 16.90
RR Red Raku	Terracotta	N/A	coarse	10%	1080-1100c	\$ 16.90
RG Raku Gold	Buff with speckles	Gold with speckles	medium		1080-1300c	\$ 20.00
BSW Buff Stoneware	Creamy buff	Creamy buff w speckles	medium		1080-1300c	\$ 20.00
DSW Dark Stoneware	Dark	Chocolate w dark speckles	medium		1080-1300c	\$ 20.00

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Walkers 10kg	Colour Oxidation	Colour Reduction	Mesh	Shrinkage	Firing range	Price
Imperial Porcelain	White translucent	White translucent	V fine	11%	1280-1300c	\$ 36.90
Superior White Porcelain	Very White	Very white	B milled	13%	1280-1300c	\$ 26.00
PB103 Stoneware	White	Grey	120	10%	1280-1300c	\$ 16.90
Limoges French Porcelain (20kg)	Eggshell cream	Creamy grey	V fine	16%	1225-1300c	\$ 114.00
# 10 Stoneware	White	Grey	80	10%	1280-1300c	\$ 16.90
White Earthenware	Cream	N/A	80	4%	1060-1250c	\$ 16.90
Super White Earthenware	White	N/A	120	4%	1060-1250c	\$ 18.00
White Mid fire	White	N/A	80	9%	1060-1250c	\$ 18.00

NEW Blackwattle Clays !!!!!

Blackwattle 10kg	Colour Oxidation	Colour Reduction	Mesh	Shrinkage	Firing range	Price
Terracotta ½ Grog	Orange to brown	N/A	30	please test	1000-1150c	\$ 15.00
White Grog Raku	White	Off White	30	please test	1000-1280c	\$ 16.00
Buff Raku	Buff	Buff to brown	30	please test	1000-1280c	\$ 16.00
White Stoneware	White	Light grey	80	12%	1215-1280c	\$ 16.00
White Earthenware	White	N/A	80	4%	1080-1150c	\$ 16.00
Woodfired stoneware	please test	Good colour response	fine	low	1280-1300c	\$ 17.00
Porcelain	Very white	Very White	fine	13%	1260-1280c	\$ 18.00
Buff Terracotta Paperclay	Buff terracotta	N/A	30	6%	1000-1150c	\$ 20.00
White EW Paperclay	White	N/A	fine	4%	1000-1150c	\$ 20.00
Gold Label Porcelain Paperclay	Very white	Very white	100	13%	1260-1280c	\$ 22.00

NEW MAD CLAY !!!!!

(that's **Model Air Drying Clay**)

\$ 8.00 2kg block

All prices include GST

Casting Slips

Name	Description	Shrinkage	Firing range	Price 5L	Price 10L
Keans' J-Cast	Fine porcelain short casting time	8%	1060-1250c	N/A	\$ 69.90
Keans Polar White	Fine white earthenware slip	9%	1060-1120c	N/A	\$ 55.00
Clayworks Terracotta	Fine terracotta slip	7%	1060-1120c	\$ 35.00	\$ 55.00
Clayworks Southern Ice	Translucent porcelain, very fine & strong	14%	1260-1300c	\$ 99.00	\$ 175.00
Clayworks JB1 Porcelain	Porcelain/stoneware very white & strong	12%	1280-1300c	\$ 45.00	\$ 75.00
Walkers Superior White Porcelain	Fine translucent porcelain when thin	9%	1280-1300c	\$ 45.00	\$ 75.00
Walkers # 10 Stoneware	White stoneware	13%	1280-1300c	\$ 30.00	\$ 55.00
Walkers White Earthenware	Fine easy to use Earthenware slip	13%	1060-1250c	\$ 36.00	\$ 56.90

Powdered Clay Bodies suitable for mixing into a casting slip

Name	Description	Shrinkage	Firing range	Price 25kg
Keans J-Cast	Fine Porcelain short casting time		1280-1300c	\$ 57.50
Keans Polar White	Fine Earthenware, suits all hobby ceramic applications too		1060-1120c	\$ 45.00
Clayworks JB1	Fine porcelain/stoneware very white & strong	13%	1280-1300c	\$ 63.00
Clayworks White Earthenware	Fine EW slip	please test	1060-1120c	\$ 55.00 **can be mixed with Terracotta concentrate \$ 22.00
Walkers # 10 Stoneware	White strong and easy to cast	13%	1280-1300c	\$ 45.00
Walkers White Auscraft	Strong white hobby ceramics speciality	5%	1000-1100c	\$ 48.90
Walkers White Earthenware	White	13%	1060-1250c	\$ 45.00
Limoges French Porcelain	Creamy eggshell in colour- true porcelain	12%	1280-1300c	\$ 145.00

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Mixing a Casting Slip

Technical information

Deflocculants

The amounts of Sodium Silicate or Dispex added to a casting slip are very critical and too much or too little may result in the slip being too thick. If this happens take a 1 litre sample of the slip and add one or two drops of Dispex. If the slip becomes thinner after stirring this then shows that more is required to achieve good fluidity. If the slip becomes thicker then this shows that too much has been added already, therefore more clay and water needs to be mixed into the slip-no more sodium silicate or dispex! The recipe can depend on the water quality and can also be affected by minor variations in the body's raw materials.

Maturing the slip

On standing overnight the slip may thicken slightly. A 2mm film of water placed on top of the slip will reduce water evaporation and help with re blending

Litre Weight Checks

The most important part of mixing a casting slip is getting the correct litre weight. Take one litre of slip and weigh it. It should weigh between 1720 and 1750 grammes

Fault	Description	Cause	Remedy
Bad draining	slip failing to drain from narrow sections uneven surface on slip side of cast piece	fluidity too low or thixotropy too high (slip thicken too quickly)	increase water addition (if litre weight is too high) or increase dispex addition
Brittleness	difficult to fettle or cut- giving jagged edges	thixotropy too low (slip too fluid)	decrease dispex addition
Casting spots	discoloured patch appearing on the mould side of the article after firing, scum on surface of slip	thixotropy too low (slip too fluid)	decrease dispex addition or decrease water addition
Scumming	small cracks on edges or where handles join the body	thixotropy too low (slip too fluid)	decrease dispex addition
Cracking	soft casts difficult to handle without distortion	thixotropy too high (slip thickens too quickly)	increase dispex addition
Flabbiness	small holes just beneath the surface on the mould	fluidity too low- air in slip	increase dispex addition
Pin holing	casting time too long	fluidity too high or thixotropy too low (slip too fluid)	increase water addition (if litre weight is too high) or increase dispex addition
Slow casting			decrease dispex addition
Wreathing	small uneven ridges on the slip side of the article	thixotropy too low (slip too fluid)	

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FRITS

A frit is a type of ceramic glass. It is a combination of materials which are melted together to render them insoluble and resistant to acid attack. They are, therefore, a means of introducing certain materials into a glaze which would otherwise be toxic.

Lead Frits: glazes based on lead frits produce a shiny, durable finish and give brightness and clarity of colour when used in conjunction with oxides, stains slips, etc. While they can be used on all earthenware clays, they are particularly suitable for red clay.

Borax Frits: Borax frits are often used in the production of earthenware glazes when a lead free glaze is required. Slight milkiness, especially at low temperatures may be evident over red clays, and the colour response with oxides etc is not usually so vivid as with lead frits.

Alkaline Frits: similar to borax frits, alkaline frits are noted for their high soda and potash content. The colour response from copper and manganese is turquoise and purple/brown respectively-typical of this type of frit. Alkaline frits have a high expansion rate which makes them a suitable base for Crackle glazes

Number	Type	Uses	Softening point	Melting Point
4193	Leadless	Hard Barium borosilicate lead free frit. NOT for use over underglaze colours	590-653c	1040-1100c
4110	Alkaline	Lead free, soft sodium borosilicate frit. High expansion frit for copper blues and manganese purples and crackles	531-575c	1000-1060c
4124	Leadless	Lead free calcium borosilicate frit very suitable for glazes for decoration ie: good for majolica glazes and underglaze decoration		1040-1100c
4171	Borosilicate	Lead free calcium borosilicate frit, alumina free, high sodium	558-590c	1040-1100c
9146	Leadless	Dense zircon white lead free frit for earthenware whites and pastels		1040-1100c
4064	Lead Bisilicate	A standard low solubility frit	465-510c	950-1080c
4108	Leadless	Lead free calcium borosilicate frit used in raku glazes and special effects	583-618c	1040-1100c
4113	Borax	Hard lead free clear borosilicate frit, general purpose used for strong colours	586-652c	1040-1100c
4194	High Alkaline	Lead free soft sodium borosilicate frit used in raku glazes –high expansion	518-559c	900-1060c
4106		Substitute for Gerstley Borate		

Frits

Frits	500gm	1kg	5kg	25kg
DA4064	replaces 4364			
DA4108	replaces 4508, 3134, 1077			
DA4110	replaces 3110, 1078			
DA4113	replaces 4712			
DA4124	replaces 3124			
DA4171	replaces 3271, 1057			
DA4193	replaces 938			
DA4194	replaces 5325p, 5301, 1012			
DA9146	replaces 9102, 3300D, 1085			
DA4106	replaces gerstly borate			

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Miscellaneous Materials	50ml	100ml	500ml	1L	5L
Anti-Set. Aids Suspension in glazes (discontinued reduced to clear)					\$ 20.00
Patch-A-Tatch for mending greenware and bisque		\$ 4.50			
Dispex Deflocculent for use in casting slips. Aids suspension			\$ 14.00	\$ 19.95	\$ 70.00
Sodium Silicate			\$ 8.50	\$ 11.50	\$ 29.90
Latex			\$ 23.95	\$ 32.95	
Soft Soap-parting medium for plaster moulds			\$ 14.90	\$ 18.90	\$ 62.00 ** 25% off 5L purchase price
Wax Resist-emulsion			\$ 14.95	\$ 22.00	
Plyrite Binder. Plasticizer, binder and thickening agent		\$ 5.00	(until sold out)		
Brushing Medium. To add to underglaze colours instead of water			\$ 11.20	\$ 16.00	\$ 39.00
CB181 Colour application medium: To make your own underglazes					
By simply adding in stains or oxides	\$ 7.90	\$ 9.90	\$ 28.90	\$ 42.60	\$ 145.00
Terrasigillata				\$ 16.75	\$ 42.90

Raw Materials

Raw Materials	50gm	100gm	250gm	500gm	1kg	5kg	25kg
Alumina Calcined (100 mesh)					\$ 8.20	\$ 32.20	\$ 125.00
Alumina Calcined (300 mesh)					\$ 9.90	\$ 34.00	\$ 128.00
Alumina Hydrate				\$ 7.90	\$ 10.90	\$ 45.00	\$ 169.95
Ball Clay FX					\$ 4.60	\$ 7.90	\$ 30.95
Barium Carbonate				\$ 5.55	\$ 9.80	\$ 31.10	\$ 125.85
Batt Wash (equal parts of Kaolin and alumina)					\$ 12.50	\$ 35.90	\$ 155.00
Bentonite					\$ 6.30	\$ 13.90	\$ 53.25
Bone Ash Natural				\$ 18.65	\$ 28.95	\$ 109.30	\$ 408.90
Bone Ash Synthetic		\$ 15.95	\$ 22.20	\$ 29.95	\$ 29.95	\$ 115.00	
Boric Acid (calcined Borax)		\$ 14.60	\$ 21.20	\$ 34.80	\$ 34.80	\$ 149.50	
Borax		\$ 17.95	\$ 25.25	\$ 35.10	\$ 35.10	\$ 144.00	
Calcite (Whiting) Omya 10					\$ 5.20	\$ 8.90	\$ 19.95
Calcium Chloride Crystals				\$ 7.20	\$ 12.65	\$ 51.00	

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Raw Materials cont.....	50gm	100gm	250gm	500gm	1kg	5kg	25kg
Clay Ceram					\$ 4.95	\$ 12.00	\$ 38.90
Colemanite (until sold out)			\$ 14.25	\$ 19.95	\$ 28.85	\$ 112.05	
Cornish Stone- Synthetic				\$ 13.45	\$ 19.45	\$ 72.00	\$ 285.00
Crackfiller	\$ 3.50	\$ 7.45	\$ 14.75	\$ 19.90	\$ 30.25	\$ 89.50	
CMC Tylose	\$ 8.95	\$ 12.25	\$ 24.50	\$ 34.95	\$ 48.00		
Dolomite – Natural					\$ 4.95	\$ 16.75	\$ 66.50
Dolomite – Synthetic					\$ 7.70	\$ 28.45	\$ 119.95
Eckalite 1 – Kaolin or China Clay					\$ 5.65	\$ 12.20	\$ 44.90
Egyptian Paste					\$ 9.95	\$ 49.95	
Feldspar- Potash					\$ 5.40	\$ 11.80	\$ 44.75
Feldspar- Soda					\$ 6.25	\$ 13.95	\$ 49.95
Fireclay- Hallum (until sold out)					\$ 5.40	\$ 10.50	\$ 41.00
Fireclay- Rowsley					\$ 5.40	\$ 12.20	\$ 46.10
Flurospar				\$ 9.80	\$ 15.90	\$ 56.90	\$ 219.90
Gerstley Borate (until sold out)				\$ 9.80	\$ 16.80	\$ 65.00	
Grog- White Fine (30 mesh)					\$ 4.90	\$ 13.50	\$ 48.60
Grog- Red Coarse (EW only)					\$ 5.95	\$ 15.00	\$ 49.00
Gum Arabic/Acacia	\$ 4.90	\$ 13.20	\$ 25.95	\$ 35.45	\$ 49.80		
Ilmenite Flour				\$ 10.50	\$ 14.95	\$ 59.90	
Kryolite		\$ 7.90	\$ 14.20	\$ 20.30	\$ 32.80	\$ 120.00	
Lithium Carbonate		\$ 15.95	\$ 28.00	\$ 38.25	\$ 58.95	\$ 268.00	
Magnesium Carbonate Light				\$ 19.60	\$ 25.50	\$ 72.00	\$ 275.00
Magnesium Carbonate Heavy (Magnesite-C)					\$ 5.40	\$ 9.85	\$ 32.05
Magnetite (Iron Spangles)		\$ 3.20	\$ 4.90	\$ 6.85	\$ 12.05		
Manganese Carbonate				\$ 12.80	\$ 21.50	\$ 69.70	
Molochite (Calcined Kaolin)			\$ 5.25	\$ 7.20	\$ 12.30	\$ 51.90	\$ 179.50
Nepheline Syenite					\$ 6.20	\$ 19.95	\$ 61.90
Paraffin Wax Granules					\$ 16.00	\$ 64.00	
Paraffin Wax Slabs					\$ 18.95	\$ 61.25	

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Raw Materials cont.....	50gm	100gm	250gm	500gm	1kg	5kg	25kg
Petalite synthetic (new product)					\$ 12.00	\$ 45.00	
Potassium Carbonate (Pearl Ash)				\$ 8.90	\$ 12.85	\$ 58.25	
Pottery Plaster							\$ 28.50
Rutile Flour	\$ 3.95	\$ 7.95	\$ 12.95	\$ 19.95	\$ 66.00		
Rutile Sand			\$ 6.20	\$ 10.20	\$ 39.50		
Silica 100#				\$ 4.95	\$ 8.95	\$ 28.90	
Silica 200#				\$ 4.95	\$ 8.95	\$ 28.90	
Silica 350#				\$ 4.95	\$ 8.95	\$ 28.90	
Silica 400#				\$ 8.90	\$ 19.95	\$ 49.90	
Silica Carbide 220 mesh	\$ 4.50	\$ 9.50	\$ 17.85	\$ 25.00	\$ 34.95	\$ 139.75	
Soda Ash				\$ 4.40	\$ 7.95	\$ 27.50	\$ 104.60
Soda Ash-Light (as used by Gail Nichols and other soda enthusiasts)			\$ 6.85	\$ 9.80	\$ 12.60	\$ 56.00	\$ 138.00
Spodumene			\$ 3.20	\$ 5.25	\$ 8.90	\$ 29.90	\$ 145.00
Spodumene 350 mesh						\$ 49.80	
Strontium Carbonate	\$ 10.20	\$ 16.90	\$ 37.95	\$ 47.35	\$ 66.75	\$ 264.95	
Talc					\$ 4.75	\$ 9.95	\$ 39.95
Tin Oxide	\$ 14.95	\$ 19.95	\$ 39.95	\$ 57.20	\$ 99.90		
Titanium Dioxide			\$ 13.85	\$ 19.25	\$ 27.20	\$ 108.00	
Vanadium Pentoxide	\$ 14.20	\$ 25.95	\$ 45.35	\$ 79.25			
Wollastonite				\$ 5.95	\$ 8.90	\$ 32.95	\$ 132.00
Zinc Oxide			\$ 11.25	\$ 18.30	\$ 25.85	\$ 101.95	
Zinc Oxide –Dense			\$ 18.95	\$ 29.95	\$ 47.70	\$ 169.95	
Zircon Sand					\$ 13.95	\$ 49.95	\$ 189.00
Zircon Flour				\$ 5.95	\$ 7.85	\$ 30.95	\$ 198.00
Zircosil (5 micron opacifier)				\$ 8.85	\$ 12.90	\$ 49.50	\$ 212.00

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Oxides and Colourants	50gm	100gm	250gm	500gm	1kg	5kg	25kg
Antimony Oxide			\$ 9.20	\$ 15.50	\$ 25.60	\$ 93.60	
Chrome Oxide	\$ 9.35	\$ 13.05	\$ 26.05	\$ 36.45	\$ 52.05		
Cobalt Carbonate	\$ 39.00	\$ 54.95	\$ 109.95	\$ 153.00	\$ 215.00		
Cobalt Silicate (same effects as carbonate)	9.95	\$ 18.90	\$ 29.95	\$ 49.95	\$ 79.00		
Cobalt Oxide	\$ 39.95	\$ 69.90	\$ 94.95	\$ 179.00	\$ 249.95		
Copper Carbonate	\$ 7.95	\$ 10.95	\$ 20.95	\$ 29.95	\$ 40.25		
Copper Oxide-Black	\$ 8.90	\$ 12.45	\$ 24.95	\$ 34.95	\$ 48.75		
Crocus Martis (purple iron oxide)	\$ 4.95	\$ 9.95	\$ 12.95	\$ 18.95	\$ 25.95		
Iron Oxide Red-natural					\$ 5.80	\$ 17.40	\$ 57.80
Iron Oxide Red-synthetic			\$ 4.35	\$ 8.55	\$ 14.50	\$ 59.05	\$ 255.80
Iron Oxide Black		\$ 4.85	\$ 7.95	\$ 10.95	\$ 15.85	\$ 59.95	
Iron Oxide Yellow (yellow Ochre)			\$ 7.95	\$ 10.95	\$ 15.95	\$ 60.80	
Manganese Dioxide			\$ 4.75	\$ 6.20	\$ 9.20	\$ 35.95	\$ 114.00
Nickel Oxide	\$ 11.95	\$ 16.75	\$ 33.95	\$ 46.95	\$ 68.00		
NEW!! Rare Earth Minerals	25gm	50gm	100gm	250gm	500gm	1kg	
Erbium Oxide (pinks to rose colours)	\$ 9.95	\$ 18.95	\$ 39.95	\$ 83.00	\$ 155.00	\$ 235.00	
Neodymium Oxide (aqua blues to lavender)	\$ 9.95	\$ 18.95	\$ 39.95	\$ 83.00	\$ 155.00	\$ 235.00	
Praseodymium Oxide (yellow to yellow greens)	\$ 9.95	\$ 18.95	\$ 39.95	\$ 83.00	\$ 155.00	\$ 235.00	

Oxide	Information
Antimony Oxide	In glazes containing lead 1% will produce bright yellows, but beware it is highly poisonous!
Chrome Oxide	A versatile oxide usually producing greens but gives reds and yellows in some lead glazes. Produces browns in the presence of zinc
Cobalt ox/carbonate	Stable blues very rich and deep
Copper ox/carbonate	2% produces strong greens 5% metallic black. In reduction it produces salmon and reds
Iron oxide red	Produces browns and russet colours
Iron oxide black	Higher iron content than red it gives darker colours @0.5-1.5% produces light cool greens and green browns, 2-4% olive to brown
Yellow Ochre	A natural form of iron oxide containing clay which gives yellow to brown colours @ 3-8%
Manganese Dioxide	1-4% for pale to medium purples, 4-6% deep browns, it is a strong flux
Nickel Oxide	Brownish greens, browns and greys, but it is highly unpredictable (fickle nickel) and is mostly used to darken other oxides
Tin Oxide	Produces soft whites as it is an opacifier. Will produce gentle pinks when used with chrome
Vanadium Pentoxide	Yellow hues when used @ 10% and above
Zinc Oxide	Zinc influences colour development and is also used for crystalline effects