

**STAINS - Cerdec, Ferro, Harshaw, Mason**

Laguna Clay offers a wide selection of stains for use in the ceramic industry. These calcined pigments assure uniformity in quality and color for glaze, engobe, slip and body formulas. It is important to keep in mind that the base formula in which the stain will be used, as well as the firing temperature and firing method, will affect the color. Test firing a formula with about four percent stain will usually show how the combination will work and indicate if a greater or lesser amount of stain will create the desired color.

The stains listed in this catalog are in our inventory as "open stock." However, all stains produced by Cerdec (Drakenfeld and Degussa), Mason, Ferro, Pemco and Harshaw may be in stock or are available by special order.

**Key to Composition**

Al	Aluminum (t)	Pr	Praseodymium
B	Boron	S	Sulfur
Ca	Calcium	Sb	Antimony (t)
Cd	Cadmium (t)	Se	Selenium
Co	Cobalt (t)	Si	Silicon
Cr	Chromium (t)	Sn	Tin
Fe	Iron	Ti	Titanium
Mn	Manganese (t)	V	Vanadium (t)
Ni	Nickel (t)	Zn	Zinc (t)
Pb	Lead (t)	Zr	Zirconium
(t)	TOXIC*		

**Base Glaze Guide**

1. All Types
2. Zn, Al, no to low Ca, low to moderate B
3. Zn, no to low Ca, low to moderate B
4. No Zn
5. Al, no Zn
6. Ca, no to low Zn, low Al, low B
7. Special Cd bases

**CERDEC/DRAKENFELD STAINS**

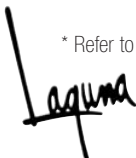
PRODUCT	COLOR	COMPOSITION	BASE GLAZE GUIDE	1/4 LB.	1 LB.	5 LBS.	10 LBS.	50 LBS.	100 LBS.
3167A* (41367A)	Sherwood Green	Cr Al Co	1						
3215A (41715A/41509)	Turquoise Azul	Zr V Si	1						
3253A* (4053A)	Camelot Blue	Co Al	1						
3320 (41505/41720)	Yellow Sol	Zr Pr Si	1						
3476A (41776A)	Raven Black	Cr Fe	4						
4172A* (41172A)	Shamrock Green	Co Cr Mg Al Zn	1						
4228A* (4028A)	Moody Blue	CoSi	1						
4230A* (41330A)	Teal Blue	Co Al Cr	1						
4262A* (4062A)	Royal Blue	Co Al	1						
4345A (41545A)	Yellow Dorada	Zr Pr Si	1						
4390A (41590A/41859A)	Marigold Yellow	Zr V Ti Fe	1						
4417A* (41117A/54412A)	Pitch Black	Cd Cr Fe Ni	1						
4465A (41565A)	Magic Black	Cr Fe Mn Ni	4						
4529A* (41629A)	Normandy Gray	Co Ni Zr Si	1						
4546A* (4846A)	Oyster Gray	Co Ni Zr Si	1						
4557A* (41157A)	Stone Gray	Co Ni Zr Si	1						
4566A* (41166A)	Granite Gray	Co Ni Mn Cr Zr Si	1						
4642 (41542)	Sugar Maple	Cr Fe Al Zn	2						
4646A (4346A)	Malaysian Mahogany	Cr Fe Zn	3						
4651A (5151A)	Golden Pecan	Cr Fe Zn	3						
4686 (41386/41725)	Red Oak	Cr Fe Al Zn	2						
4688A (41388A)	Honey Maple	Cr Fe Al Zn	2						
4691 (41591)	Dark Chestnut	Cr Fe Zn	3						
4711 (41811)	Coral Valor	Zr Fe Si	1						
4715A (41815A)	Peach Amarillo	Zr Fe Si	1						
4742A (41342A)	Clover Pink	Cr Al Zn	2						
4744A (4144A)	Crimson Obscuro	Cr Sn	6						
4767 (41567A)	Coral Mar	Zr Fe Si	1						
4785* (41585)	Lilac	Cr Sn Ca Si Co Al	6						
4788A (41188A)	Pink Rosa	Cr Sn Ca Si	6						
4797A (41597A)	Coral Mi	Zr Fe Si	1						
5797 (5197)	French Ochre	Fe Si	1						

A - designates Spersastain®

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\* Refer to the Health Caution paragraph at the beginning of the Raw Materials Section.



**STAINS** continued

**CERDEC/DEGUSSA INCLUSION PIGMENTS**

In the past, stable red stains at high firing temperatures were unknown to the ceramic industry. This gap was bridged by Degussa's line of inclusion pigments which are stable up to a firing temperature of 1300°C (2372°F) and which are resistant to unfavorable kiln atmospheres. By using inclusion pigments in glazes, the following additional advantages can be achieved in comparison to the traditional cadmium glazes: • Favorable thermal expansion (no special bisque with high coefficient of thermal expansion necessary). • Low sensitivity to contamination during processing. • Low influence of contamination in the bisque (e.g. pyrites, copper pyrites). • Possibility of blending with other stain systems, color oxides and color frits. • Compatibility with other glazes (possibilities to combine). • Matting possibility with the addition of zinc oxide, etc. • Non-problematic behavior during processing of glaze slurry/slip. The red, orange, and yellow inclusion pigments can be mixed with other stain systems. With these intermixtures, totally new color tones can be achieved.

PRODUCT	COLOR	COMPOSITION	BASE GLAZE	1/4 LB.	1 LB.	5 LB.	10 LB.	50 LB.	100 LB
			GUIDE						
239616	Brilliant Orange	Zr Si Cd S Se	1						
239416	Yellow	Zr Si Cd S Se	1						
279496	Intensive Red	Zr Si Cd S Se	1						
279497	Bordeaux Red	Zr Si Cd S Se	1						

**FERRO STAINS** Los Angeles, CA

PRODUCT	COLOR	COMPOSITION	BASE GLAZE	1/4 LB.	1 LB.	5 LB.	10 LB.	50 LB.	100 LB
			GUIDE						
C-181	Yellow Brown	Cr Fe Zn	3						
C-182	Red Brown	Cr Fe Zn	3						
C-183	Yellow Brown	Cr Fe Zn	3						
C-184	Chocolate Brown	Cr Fe Zn	3						
C-202*	Dk. Royal Blue	Co Si	1						
C-2222*	Bright Blue	Co Al	1						
C-287EZ*	Lt. Blue	Co Zn Al	1						
C-292	Turquoise	Zr V Si	1						
C-416	Yellow	Zr Pr Si	1						
C-464	Yellow	Zr V	1						
C-620*	Green	Co Cr	4						
C-768*	Black	Fe Cr Mn Ni Co	4						
C-790*	Gray	Zr Co Ni	1						
C-810	Red	Cd S Cd Se	7						
C-1865	Peach	Zr Fe Si	1						
C-892	Peach	Zr Fe Si	1						
C-896	Maroon	Cr Sn	6						
F-1942	Yellow	Cr Sb Ti	4						
F-3786	Black	Cr Fe	4						
F-3794*	Black	Co Cr Fe Ni	1						

**FERRO STAINS** Byesville, OH

C-181	Yellow Brown	Cr Fe Zn	3						
C-182	Red Brown	Cr Fe Zn	3						
C-183	Yellow Brown	Cr Fe Zn	3						
C-184	Chocolate Brown	Cr Fe Zn	3						
C-202*	Dk. Royal Blue	Co Si	1						
C-2222*	Bright Blue	Co Al	1						
C-287EZ*	Lt. Blue	Co Zn Al	1						
C-292	Turquoise	Zr V Si	1						
C-416	Yellow	Zr Pr Si	1						
C-464	Yellow	Zr V	1						
C-620*	Green	Co Cr	4						
C-768*	Black	Fe Cr Mn Ni Co	4						
C-790*	Gray	Zr Co Ni	1						
C-810	Red	Cd S Cd Se	7						
C-1865	Peach	Zr Fe Si	1						
C-892	Peach	Zr Fe Si	1						
C-896	Maroon	Cr Sn	6						
F-1942	Yellow	Cr Sb Ti	4						
F-3786	Black	Cr Fe	4						
F-3794*	Black	Co Cr Fe Ni	1						

**STAINS** continued

**HARSHAW STAINS**

PRODUCT	COLOR	COMPOSITION	BASE GLAZE GUIDE	1/4 LB.	1 LB.	5 LBS.	10 LBS.	50 LBS.	100 LBS.
1166*	Blue	Co Al Zn	1						
B4375	Brown	Fe Ni	—						
D245*	Grey	Zr Ni Si Co	1						
D277	Blue	V Zr	1						
D320	Pink	Mn Al	—						
D471	Black	Fe Cr	4						
E202	Blue	V Zr	1						
E99	Coral	Zr Fe	1						
F444	Pink	Cr Al	2						
Z560*	Black	Co Fe Mn Cr	4						

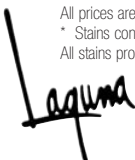
**MASON STAINS**

6000	Shell Pink	Cr Sn	6						
6001	Alpine Rose	Cr Sn	6						
6002	Rose Pink	Cr Sn	6						
6003	Crimson	Cr Sn	6						
6004	Crimson	Cr Sn	6						
6005	Deep Crimson	Cr Sn	6						
6006	Deep Crimson	Cr Sn	6						
6007	Peach	Cr Sn V	6						
6008	Peach	Cr Sn V	6						
6009	Coral	Cr Sn V	6						
6020	Manganese Alum. Pink	Mn Al	—						
6022	Shrimp Pink	Zr Cd Se	7						
6023	Clover Pink	Cr Sn Zr V	1						
6024	Orange	Zr Cd Se	—						
6025	Coral Red	Zr Cd Se	7						
6026	Lobster	Zr Cd Se	7						
6027	Tangerine	Zr Cd Se	7						
6029	Persimmon	Cr Al Fe Zn	2						
6031	Deep Salmon	Cr Sn Fe	6						
6032	Coral	Zr Fe	1						
6033	Sunset	Zr Cd Se	7						
6052	Doll Flesh	Mn Al Cr Fe Zn	1						
6065	Chrome Alum. Pink	Cr Al	—						
6067	Pink Extender	Sn Ca Si	6						
6069	Dark Coral	Cr Sn V	6						
6090	Coral	Cr Sn V	6						
6098	Flesh	Cr Sn V Zr	6						
6100	Woodland	Cr Fe Zn Al Si	2						
6101	Chestnut	Cr Fe Zn Mn	3						
6103	Golden Brown	Cr Fe Zn Al	2						
6104	Fawn	Zr V Cr Sn	6						
6107	Dark Golden Brown	Cr Fe Zn Al	2						
6108	Walnut	Cr Fe Zn Mn	3						
6109	Deep Brown	Cr Fe Zn Al	2						
6111	Spice Brown	Sn Zn Fe	3						
6113	Claret	Cr Fe Zn	3						
6119	Russet	Cr Fe Zn Ca Zr	2						
6121	Saturn Orange	Cr Fe Zn Al	2						
6122	Cedar Brown	Cr Fe Zn Al	2						
6123	Saddle Brown	Cr Fe Zn Al	2						
6124	Chocolate	Cr Fe Zn Al Mn	2						
6125	Leather	Cr Fe Zn Al	2						
6126	Hazelnut	Cr Fe Zn Al	2						
6129	Golden Ambrosia	Cr Fe Zn Al	2						
6131	Titanium Iron Brown	Ti Fe	4						
6133	Sorrel Brown	Fe Zn Cr	3						
6134	Red Brown	Cr Fe Zn	3						
6149	Iron Silicate Brown	Fe Si	1						
6153	Seal Brown	Cr Fe Zn Mn	3						

All prices are per pound.

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**MASON STAINS, continued**

PRODUCT	COLOR	COMPOSITION	BASE GLAZE GUIDE	¼ LB.	1 LB.	5 LBS.	10 LBS.	50 LBS.	100 LBS.
6155	Black Brown	Cr Fe	3						
6160	Dark Chocolate	Cr Fe Zn Al Mn	2						
6163	Terra Cotta	Cr Fe Zn Al	2						
6166*	Camel Beige	Al Co Cr Fe Mn Zn	2						
6181	Sandstone	Cr Fe Zn Al	2						
6190	Deep Brown	Cr Fe Mn	3						
6194	Manganese Silicate Brown	Mn Si	—						
6200*	Evergreen	Cr Co Si	4						
6201*	Celadon	Cr Co Zn Al Si	1						
6202*	Florentine	Cr Co Si	4						
6204	Victoria	Cr Ca Si Zr	6						
6206	Grass Green	Cr Ca Si Zr	6						
6207*	Celeste	Cr Co Zn Si	1						
6209	Chrome Green	Cr Si	4						
6211	Pea Green	Zr V Sn	1						
6213*	Hemlock	Cr Co Zn Al Fe	1						
6219*	French Green	Cr Co Zn Ca Si	1						
6221*	Turquoise	Cr Co Zn Ca Si Zr	1						
6223	Ivy	Cr Al Si	4						
6224*	Dark Green	Cr Co Zn Si Fe	1						
6226*	Dark Leaf	Cr Co Zn Si Fe	1						
6234*	Myrtle Green	Cr Co Al	4						
6236	Chartreuse	Zr V Sn	1						
6242	Bermuda	Zr V Pr Si	1						
6244*	Deep Sea	Cr Co Al Si Zn	1						
6246*	Blue Green	Cr Co Zn Sn Si	1						
6254*	Dark Teal Green	Cr Co Zn Al Si	4						
6255*	Jade Green	Cr Co Zn Al Si	4						
6263	Victoria Green	Cr Ca Si Zr	6						
6264	Victoria Green	Ca Cr Si Zr	4						
6265*	Leaf Green	Cr Co Zn Ca Si Zr	6						
6266*	Peacock	Cr Co	1						
6267*	Emerald	Cr Ca Si Zr Co	6						
6268*	Sea Green	Cr Co Zn Si	6						
6271*	Mint	Cr Co Zn Ca Si Zr	6						
6274	Nickel Silicate Green	Ni Si	1						
6280*	Avocado	Zr V Cr Fe Zn Al Co	1						
6288	Turquoise	Zr V Cr Ca Si	1						
6296*	Dark Spruce Green	Cr Si Co Ca	4						
6300*	Mazerine Blue	Co Si Zn	1						
6302*	Cadet Blue	Cr Co Al Si Sn Zn	1						
6303*	Deep Orchid	Al Co Cr Sn	1						
6304	Violet Chrome-Tin	Cr Sn	6						
6305*	Teal Blue	Cr Co Al Si Zn	1						
6306*	Vivid Blue	Co Al Si Zn	1						
6307*	Pastel Blue	Co Al Sn Zr	1						
6308*	Delphinium Blue	Co Al Sn	1						
6310*	Wedgewood Blue	Co Al Si	1						
6313*	Medium Blue	Co Zn Si	1						
6315	Zirconium Vanadium Blue	Si V Zr	1						
6317*	Lavender	Si V Zr	1						
6318*	Amaethyst	Al Co Cr Sn Zn	1						
6319*	Lavender	Al Co Mn Si Zn	1						
6320*	Delft Blue	Co Al Si Sn Zn	1						
6324*	Violet	Al Co Mn Si Sn Zn Zr	1						
6330*	Cobalt Aluminate Blue	Co Al	1						
6331*	Orchid	Al Co Cr Si Sn	6						
6332*	Orchid	Al Co Cr Si Sn	6						
6333	Lavender	Al Co Cr Si Sn	6						
6336*	Peacock	Cr Co Al Si Sn Zn	1						
6338*	Cobalt Meta-Silicate Blue	Co Si	1						
6339*	Royal Blue	Co Al Zn	1						
6343*	Mediterranean	Cr Co Al Si Zn	1						
6350*	Bright Blue	Al Co Si V Zn Zr	1						

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Contact distributors@lagunaclay.com for the Laguna distributor in your area

**MASON STAINS, continued**

PRODUCT	COLOR	COMPOSITION	BASE GLAZE GUIDE	1/4 LB.	1 LB.	5 LBS.	10 LBS.	50 LBS.	100 LBS.
6360*	Blue Willow	Co Al Si Cr Sn	6						
6363*	Sky Blue	Co Al Si	1						
6364	Turquoise	Zr V	1						
6368*	Copen Blue	Co Zn Al Si	1						
6371*	Dark Teal	Cr Co Al	1						
6373*	Turquoise	Zr V Cr Co Sn	1						
6374	Dark Turquoise	Si V Zr	—						
6376	Robin's Egg	Zr V	1						
6378	Zirconium Vanadium Blue	Si V Zr	1						
6381*	Blackberry Wine	Co Cr Si Sn	6						
6383*	Cobalt Aluminate Blue	Co Al	1						
6385	Pansy Purple	Ca Co Cr Si Sn	6						
6386*	Navy Blue	Co Si Zn Cr Fe Ni	1						
6387*	Mulberry	Al Co Cr Sn	1						
6388*	Mazerine Blue	Co Si	1						
6389*	Sapphire Blue	Al Co	1						
6391	Zirconium Vanadium Blue	Si V Zr	1						
6392	Dusty Lavender	Cr Si Sn V Zr	6						
6393*	Turquoise	Zr V Co Sn Al	1						
6396*	Peacock	Zr V Cr Co Al	1						
6398*	Deep Peacock	Cr Co Al	1						
6404	Vanadium Yellow	Sn V	1						
6405	Naples Yellow	Zr Pr Si Fe	1						
6406	Buttercup	Zr Pr Si Fe	1						
6407	Marigold	Zr Pr Si Fe	1						
6433	Praseodymium	Pr Zr Si	1						
6440	Vanadium Yellow	Sn V	1						
6450	Praseodymium Yellow	Pr Zr Si	1						
6464	Zirconium Yellow	Zr V	1						
6471	Old Gold	Sn V Cr Fe Zn Al	1						
6485	Titanium Yellow	Cr Ti Sb	4						
6500*	Sage Grey	Cr Co Ni Si	1						
6503	Taupe	Cr Fe Al Si Zr	1						
6506*	Pearl	Cr Fe Co Ni Sn	1						
6515	Soft Medium Grey	Zr Al Si Cr Fe Mn	1						
6523	Soft Green Grey	Zr Al Si Cr Fe Mn Ni Sn	1						
6527	Shadow	Cr Fe Al Si Zr Sn	1						
6528*	Charcoal	Cr Fe Co Ni Sn	1						
6530*	Silver	Cr Fe Co Ni Sn	1						
6531*	Slate	Cr Fe Co Al Si Ni Sn	1						
6537	Mouse Grey	Cr Fe Al Si Zr Sn	1						
6540*	Blue Grey	Cr Fe Co Ni Sn	1						
6572	Neutral Grey	Cr Fe Zr	1						
6573	Rose Taupe	Zr V Cr Sn Fe	1						
6591*	Gun Metal	Co Ni Zr	1						
6600*	Best Black	Cr Fe Co Ni	1						
6601*	Velvet Black	Cr Fe Co Ni Zn	1						
6609*	Black	Cr Fe Co Ni Mn Sn	1						
6612	Onyx Black	Co Cr Fe Ni	1						
6616*	Chrome-Free Black	Co Fe Mn	1						
6650	Cobalt-Free Black	Cr Fe	4						
6657*	Black	Cr Fe Co	1						
6666	Cobalt-Free Black	Cr Fe Mn	1						
6700	White	Zr Al Si	—						
6768	Tin White	Sn Al Si	—						
6790	White for Matting	Si Zr	—						

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