

FLUSHED IRON BLUES

<u>S-W Code</u> <u>No.</u>	<u>PC&C</u> <u>Code No.</u>	<u>Pigment Name</u>	<u>Pigment</u> <u>Type</u>	<u>%</u> <u>Pigment</u>	<u>% Others</u>	<u>Wt./Gal.</u>
<u>Flushed in General Purpose Alkyd Varnish (37 C 18)</u>						
(7630)	FL-11-317	Milori Blue	7620	40%	40% Resin Solids	20% (145) 9.6
(76 C 15)	FL-11-318	Chinese Blue	7600	38%	38% " "	24% " 9.5
<u>Flushed in High Quality Alkyd Varnish (3853)</u>						
(76 C 12)	FL-11-219	Milori Blue	7620	30%	28% Resin Solids	42% (145) 9.4
(76 C 13)	FL-11-220	Chinese Blue	7600	25%	30% " "	45% " 8.5
<u>Flushed in Linseed Oil</u>						
(7610)	FL-11-100	Chinese Blue	7600	40%	60% (2702)	9.9
(76 C 14)	FL-11-101	Milori Blue	7620	50%	50% "	10.5
(76 C 22)	FL-11-102	Milori Blue	7620	36%	19% (2537)	17% (2702) 8.8
					28% (145)	
<u>Flushed in Castor Oil (14 A 1)</u>						
--	FL-11-103	Milori Blue	7620	35%	65% (14 A 1)	8.7
<u>Flushed in Soya Oil (1505)</u>						
(76 C 16)	FL-11-104	Milori Blue	7620	40%	60% (1505)	9.5
<u>Flushed in Alkyd Varnish (4038)</u>						
(76 C 17)	FL-11-105	Milori Blue	7620	23%	32% Resin Solids	39% (323) 9.4
					6% (1304)	
<u>Flushed in Soya Linseed Alkyd (3870)</u>						
(76 C 21)	FL-11-106	Milori Blue	7620	40%	40% Resin Solids	17% (145) 9.7
					3% Antioxidants	

CLASS 7600

Blue and Violet Pigments, Inorganic

7600-7649 Iron Blues

7650-7679 Ultramarine Blues

7680-7699 Miscellaneous Inorganic Blues and Violets

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I. IRON BLUES

A. Pigments

<u>A. Pigments</u>		Oil		
		Absorption	Bulk	
Number	Name	S-W 419.2	G/100#	Remarks
<u>Chinese</u>				
7600	CP Chinese Blue, Regular	40	6.48	-
7608	Intermix for 76D4	40	6.50	Auto. Lacquers
7602	Chinese Blue B63-D (DuPont)	75	6.82	

Milori

7620	CP Milori Blue	55	6.70	
76D1	Alkalori Blue		6.67	Acme
76D2	Blacktone 50-4200		6.82	Acme
76C9	B-300-D Milori	45	6.85	

B. Dispersions, Purchased

Number	Name	% Pig.	% Resin	NVM %	#/Gal. 75°F.
76C4	RBH P516-E67	20	12 5-6" N/C	36	8.45
76C6	RBH P230-E5			45	
76C7	RBH 6150	20	12 1/2" RS N/C		8.37
76F6	RBH AN-C638-E85		CAB		
76F8	RBH 1077	30	18 1/2" RS N/C		9.33

C. Dispersions, Manufactured

Number	%	Pigment	Vehicle NVM	Vehicle	#/Gal. 75°F.
76C12	30	Iron Blue	28	(3853)	9.40
76C14	50		50	(2702)	10.50
76C22	36	Press Cake	(16.5	(2702)	
			(19	(25A16)	
7630	40		40	(37C18)	9.60
76C15	38		38	(37C18)	9.50
76C16	40		60	Soya	
76C17	23	Press Cake	32	(4038)	
7610	40		60	(2702)	9.90
76C13	25	D2941	30	(3853)	8.50
76C21		D2950		(3870)	

D. PV&L Bases

Number	%	Pigment	Vehicle	#/Gal. 75°F.
BL20	31	7620	(2702) and (2539)	9.37
BL1223	25	7620	(3951)	8.41
BL1301	20	76C9	(3948)	8.73

0007-PMC-000000379

Remarks

IRON BLUES are ferric ferrocyanide complexes containing other modifying elements as ammonium radical or potassium. They are classified as Milori, Chinese, and Prussian Blue.

Iron blues are non-bleeding and have excellent light, heat, and acid resistance. Color retention is excellent in full shades. Durability is excellent in full shades, but a tendency to bronze occurs on exterior exposure, mostly in the Milori blues and least so in Prussian blues. Alkali resistance is poor.

Wide use occurs in automotive and industrial enamels, dark and medium trim paints, and tinting where only moderate light fastness is required.

Milori blues are reddish in masstone, have soft texture, are non-reactive, and mix and grind easily.

7620 Clean green masstone and tint; suitable for use with yellows to produce greens.

Chinese blues have a clean blue masstone and strong green tint.

7600 Regular; jet masstone with greenish tint.

II. MINERAL VIOLETS

Number	Name	Bulk
76L1	Violet Toner	4.55
76P3	Mineral Violet R410D	

Remarks

MINERAL VIOLETS are generally ammonium manganese phosphates.

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III. ULTRAMARINE BLUES

A. Pigments

Number	Name	Oil	Sp. Resist.	Bulk	Remarks
		Absorption S-W 419.2			
		Ohms Min.	G/100#		
7650	Ultramarine Blue, Medium	39	2000	5.02	
7651	Intermix for 98	39	2000	5.02	
76F2	Ultramarine Blue 928(Calco)				Sherdye

B. Dispersions Purchased

Number	Name
76F3	RBH 55

D. PV&L Bases

Number	%	Pigment	Vehicle	#/G
BL1	56.5	7650	(2702) and (2539)	12.09

Remarks

ULTRAMARINE BLUES are complex combinations of soda, alumina, and silica, containing chemically combined sulfur. Principally noted for a dark, brilliant blue color, they are somewhat reddish in cast.

They offer good heat stability, non-bleeding in organic solvents, excellent alkali resistance (except lime) and extreme light fastness. They are sensitive to acids and should be used with low acidity vehicles. Tinctorial strength is much weaker than iron blues.

Failure is rapid by chalking and color decomposition; therefore, exterior use is not recommended. Ultramarine blues are readily adaptable to emulsion paints.

7650 Standard shade.