23050 Phthalo Blue, Heliogen® Blue

Identification:

Color Index:	Pigment Blue 15:1, CI 74160
Chemical Class:	Phthalocyanine
Molecular Formula:	$C_{32}H_{15}N_8Cu$
CAS No.:	147-14-8

Physical Properties:

Specific Gravity:	1.6 g/cm^3
Bulking Value:	2.9 - 3.2 cc/g
Oil Absorption:	37 cc/100 g
Moisture:	0.9 % max.
Water Soluble Matter:	0.50 % max.
pH:	6 - 7.5
Particle Size:	98 %, passes through 320 mesh sieve

Resistance to Chemicals:

HCl:	(5 %)	Excellent
Na_2CO_3:	(5 %)	Excellent
H_2SO_4:	(5 %)	Excellent
NaOH:	(5 %)	Excellent

Resistance to Solvents:

Water:	Excellent
Acetone:	Good
Mineral Spirit:	Excellent
Linseed Oil:	Excellent
Ethyl Alcohol:	Excellent
Di-Octyl Phthalate:	Excellent
Xylene:	Moderate
Methyl Ethyl Ketone:	Moderate

Light Fastness:

Full tone:	Excellent
Tint:	Excellent

HELIOGEN® Pigments are phthalocyanines having dibasic copper as central atom. Copper-phthalocyanine pigments can occur in different crystal modifications of which technically the most important forms are the alpha-form (reddish-blue) and the s-form (greenish-blue). The alpha-modification of heliogen® blue is stabilized by a partial chloridation (0.5 chlorine atom per CuPc-molecule).

The alpha-stabilized HELIOGEN® Pigment blue, 23050, contains approx. 3 % organically bound chlorine.

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