

Technical Data Sheet

AIT COLORANTS - AQUEOUS IN-PLANT TINTING

General Description

AIT Colorants are high tint strength color dispersions of quality pigments in water and glycol. Each product is formulated to contain the lowest possible percentage of surfactants to give a stable dispersion without affecting performance of tinted bases. All colorants have been tested thoroughly in various types of applications and many other industrial finishes. AIT Colorants have a minimum grind of 6.0 on the Hegman Gauge which make these dispersions suitable for tinting semi-gloss and gloss latex enamels. Each product is closely controlled to meet the established quality control specifications.

Available Colors

Code	Color
AIT-118	Titanium White
AIT-222	Toluidine Red
AIT-244	Red Iron Oxide YS
AIT-254	Quinacridone Red
AIT-334	DNA Orange
AIT-364	Yellow Oxide
AIT-374	Perm. Medium Yellow
AIT-385	Brilliant Yellow G
AIT-389	Hansa Yellow HS
AIT-421	Brown Iron Oxide
AIT-434	Raw Umber
AIT-444	Burnt Sienna
AIT-454	Burnt Umber
AIT-544	Phthalo Green BS
AIT-644	Phthalo Blue RS
AIT-648	Ultramarine Blue
AIT-684	Carbazol Violet
AIT-734	NF Black (Non-Flaking)
AIT-744	Lampblack

Code	Lbs/ Gal	% Pigment	% Vehicle	% Volatile	Lightfastness Mass Tint		Coating VOC g/lit	Material VOC g/lit
AIT-118	17.5	70	3.2	26.8	E	E	205	115
AIT-222	9.2	23.1	5.1	71.8	G	VP	236	82
AIT-244	16.3	57.6	8.2	34.2	E	E	249	98
AIT-254	9.4	22.2	4.3	73.5	E	E	249	56
AIT-334	10.0	43.0	7.3	49.7	G	P	372	261
AIT-364	15.4	59.0	7.0	34.0	E	E	211	102
AIT-374	10.7	47.0	6.2	46.8	VG	G	324	175
AIT-385	10.5	39.4	4.0	56.6	G	P	189	64
AIT-389	10.0	39.0	4.2	56.8	G	G	166	61
AIT-421	13.9	52.8	5.8	41.4	E	E	215	86
AIT-434	11.9	43.2	7.6	49.2	E	E	341	109
AIT-444	12.7	54.0	6.9	39.1	E	E	132	95
AIT-454	13.0	51.0	8.8	40.2	E	E	240	90
AIT-544	10.7	38.7	7.3	54.0	E	E	117	65
AIT-644	9.0	27.7	7.3	65.0	E	E	202	65
AIT-648	12.2	55.0	6.6	38.4	G	G	150	76
AIT-684	12.5	47.4	8.8	43.8	E	G	588	419
AIT-734	10.5	41.0	5.2	53.8	E	E	464	318
AIT-744	10.2	42.0	7.5	50.5	E	E	257	126

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Physical Properties	
Tinting Strength	+/- 5% On a Weight Basis
Grind Hegman Gauge	6 Minimum
pH	8.0 - 8.5
Viscosity	Within 15 Kneb Units

Compatibility

Each colorant has been tested in various water-based paints, and found to be compatible, using the following latex polymers: acrylic, vinyl acetate, polyvinyl acetate, alkyd emulsion, ethylene copolymers, styrene butadiene, and alkyd modified. AIT Colorants contain the lowest possible concentration of surfactants so they will not affect the physical properties of the finished paints. AIT Colorants are also suitable for tinting fabric and paper coatings, latex adhesives, wax emulsion, lumber marking, leather coloring, artists colors and paints, and many others. We do, however, recommend that you check the compatibility before actual use.

Quality Assurance

DayGlo takes great care in the selection and screening of raw materials. All pigments, vehicles and other ingredients used in the manufacture of our dispersions meet stringent performance specifications.

Pigments used in AIT Colorants are the finest obtainable on the market with regard to their fastness properties. They all have good alkali resistance and can be used in cement products and plaster.

There are limitations on lightfastness and weathering properties inherent in certain pigments. These weatherability factors cannot be accurately predicted. The final properties of the finished coatings in which our AIT dispersions are used are dependent on our customers' vehicle system. We recommend that the lightfastness and weathering properties be tested under customers' performance standards.

Shelf Life Stability

All AIT Colorants have 5-10% glycol to impart good freeze-thaw stability. Each product contains a practical level of non-mercurial biocide which contributes to its excellent shelf stability. Most colorants also have a small amount of suspension agent to give good non-settling properties.

AIT Colorants have a balanced chemistry for the best shelf life. Most of our dispersions contain additives to give non-settling properties. Dispersions of some heavier pigments may stratify with prolonged standing, however, they will disperse readily, even after months of storage.

Custom Colors

When specialized applications require specific pigments or color requirements, DayGlo welcomes your inquiry. Custom colors based on AIT know-how is supported through our technical and manufacturing groups. Our custom products are produced and controlled to the quality standards you specify.

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Handling

AIT Colorants have flash points in excess of 200°F (PMCC). They will not support combustion in the liquid state.

Good industrial hygiene practices should be observed, and users should avoid prolonged contact with skin and breathing of vapors. AIT products should be used with good ventilation.

Packaging

AIT Colorants are available in 5-gallon pails as a standard package size; 55-gallon drums are available as well. Special bulk handling tote bins furnished by the customer can also be used.

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