

## Jet black colors for industrial applications

Chromaflo Technologies has developed several High Jet Carbon Black colorants, which when used in masstone applications, result in deep, high jet black colors.

### Application

Carbon Black dispersions (color index PBk7) are available in all of our colorant lines. Most of these carbon black pigments used in tinting systems are also known as tinting blacks. They are based on large particle size carbon black pigments and work very well in tints, but have poor jetness when used in masstones. However, fine particle size carbon blacks produce superior jetness. For that reason, we have created a number of additional colorants based on extremely fine Carbon Black pigments.

### Properties

Normal tinting blacks can be used to formulate excellent grey and black colors. However, in industrial applications and especially in high gloss industrial applications, very deep black colors are often necessary. An example of that is RAL 9005. A pigment dispersion based on an extremely fine particle size carbon black is required to reach RAL 9005 and similar colors. The finer the particle size of the pigment, the better the jetness in the final application. Final jetness of the coating, however, is not only determined by the particle size of the pigment, but also by the degree of stabilization of the pigment dispersion in the base.

### Our Services

As a frontrunner in integrating tinting solutions, ChromaFlo Technologies provides excellent service in the set-up of your tinting systems as well as smooth colorant technology conversions. Our technical support includes:

- n Assurance of colorant and base paint compatibility
- n System design, optimization and pigment selection
- n Color matching and database development
- n Equipment compatibility and sales support

Stringent production controls and processes ensure that all colorants are manufactured to rigid specifications for color shade, strength and rheology. The end result is assured color accuracy and reproducibility.



## HIGH JET BLACK COLORANTS TECHNICAL DATA

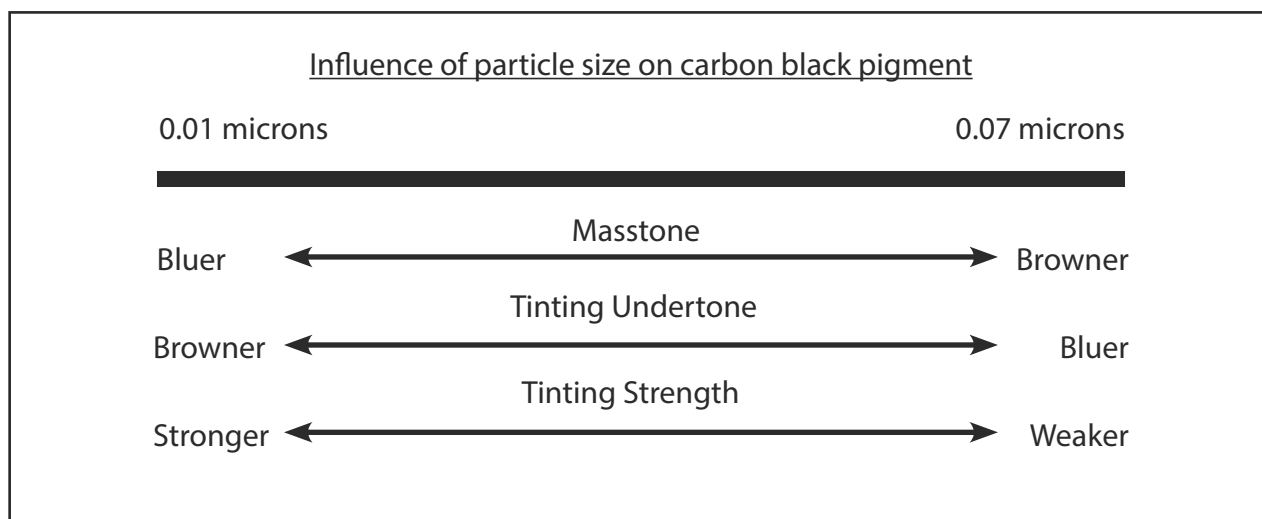
Name	Technology	Pigment	Pigment content of colorant [%]	Light fastness of pigment <sup>1)</sup>		Weather resistance of pigment <sup>2)</sup>		Density of Colorant (Kg/m <sup>3</sup> )
				Full	Tint	Full	Tint	
Temacolor HP 3097	Solvent-based	P.Bk.7	16	8	8	5	5	1100
Temacolor HP 8097	Solvent-based	P.Bk.7	10	8	8	5	5	1100
Temacolor T 60	Solvent-based	P.Bk.7	14	8	8	5	5	1073
Chroma-Chem High Jet Black 7 WAB	Water-based	P.Bk.7	11	8	8	5	5	1082
Chroma-Chem CBX-02736	Solvent-free CAB Chips*	P.Bk.7	29	8	8	5	5	1310
Solvasperse IND BLJ	Solvent-based	P.Bk.7	14	8	8	5	5	1073
Plasticolors CF-20737	Solvent-free	P.Bk.7	34	8	8	5	5	1211
Plasticolors DTP-02962	Solvent-free	P.Bk.7	40	8	8	5	5	1191

The values given in the table are guidance figures only. The pigment data is obtained from pigment suppliers, individual testing is recommended.

<sup>1)</sup> Light fastness is measured on an eight step blue scale, where 1 = very poor light fastness, 8 = excellent light fastness.

<sup>2)</sup> Weather resistance is measured on a five step gray scale, where 1 = very poor weather resistance, 5 = excellent weather resistance.

\*To use the CBX chips, please see separate "Cellulose Acetate Butyrate Dry Chip Processing" application sheet.



© Chromaflo Technologies. This information is furnished without warranty, representation, inducement or license of any kind. It is accurate to the best Chromaflo Technologies' knowledge or is obtained from sources believed to be accurate, Chromaflo Technologies therefore assumes no legal responsibility for reliance upon given information. We reserve the right to make any changes according to technological progress or further developments. Since Chromaflo Technologies does not have control over the exact use of our products or other factors that may affect your specific process and application, our providing this data does not relieve you of the responsibility of carrying out your own tests and experiments prior to any contemplated use of the product. Also when Chromaflo Technologies' products are incorporated into your product, you must make your own determination as to what instructions and warranties to provide.

