

Pigment concentrates

US SF 4.3.

Resin free carbon black pigment dispersions, based on Special Black 4, Printex U, Printex 45, Printex 55, and COLOUR BLACK FW 200

Pigment paste (Supplier)	A	B	C	D	E
<i>Color index</i>	<i>P.BL 7</i>				
Pigment Trade name (1)	Special Black 4	Printex U	Printex 45	Printex 55	COLOUR BLACK FW 200
Pigment	24.50	24.50	29.69	26.49	13.07
Borchi® Gen 0851 (2)	17.15	17.15	11.88	15.89	20.90
Water	56.35	56.35	56.43	55.62	64.03
Borchers® AF T (2)	2.00	2.00	2.00	2.00	2.00
<i>Total</i>	<i>100.00</i>	<i>100.00</i>	<i>100.00</i>	<i>100.00</i>	<i>100.00</i>
Dosage of additive active content based on pigment content	35 %	35 %	20 %	30 %	80 %

All indications are as supply form (in % by wt).

Dispersion: 60 min, on Skandex BAS-20, with 150 g Zr-Silicate grinding beads (2mm)

Data

Particle size (using Grindometer)	< 3 µm	< 5 µm	< 7 µm	< 5 µm	< 6 µm
Viscosity (at shear rate 100 s ⁻¹ ; at 23	50 mPa·s	80 mPa·s	38 mPa·s	36 mPa·s	90 mPa·s
Storage (2 weeks at 50 °C)	no significant alteration of the viscosity and particle size				

Suppliers

- (1) Orion Engineered Carbons (www.orioncarbons.com)
(2) Borchers Americas (www.borchers.com)

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