

## Binder free pigment concentrates based on inorganic pigments

Pigment paste	A	B	C	D	E	F
Colour index	P.W. 6	P.Y. 42	P.Y. 42	P.Y. 42	P.R.101	P.B. 11
Pigment Trade Name	Tiona 595 (1)	Bayferrox 3905 (2)	Bayferrox 1420 (2)	Bayferrox 3920 (2)	Bayferrox 130 M (2)	Bayferrox 318 M (2)
Pigment	65.0	55.0	56.0	60.0	65.0	50.0
<b>Borchi® Gen DFN</b> (3)	—	1.0	—	—	—	5.0
<b>Borchi® Gen 0650</b> (3)	2.5	2.0	—	2.7	2.5	—
<b>Borchi® Gen 0650/12</b> (3)	—	—	4.0	—	—	—
Bentone LT (4)	—	—	0.3	—	0.2	—
Water/PEG 400 (1.5/1) (5)	32.5	42.0	39.2	—	31.8	—
Water	—	—	—	28.0	—	30.0
PEG 200 (5)	—	—	—	9.3	—	13.0
Defoamer	—	—	0.5	—	0.5	2.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Dosage of additive active content based on pigment content</b>	<b>3.8 %</b>	<b>5.5 %</b>	<b>7.1 %</b>	<b>4.5 %</b>	<b>3.6 %</b>	<b>10.0 %</b>

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

**Dispersion:** 60 min, on Skandex Shaker, with 1.5 times Zr-silicate grinding beads (2mm)

### Data

Particle size (using Grindometer)	< 10 µm
Viscosity (at shear rate 100 s <sup>-1</sup> ; 23 °C)	free-flowing: 500 - 2000 mPa·s
Storage stability (2 weeks at 50 °C)	stable (no significant alteration of particle size and colour strength)

### Suppliers

- (1) Millennium Chemicals ([www.millenniumchem.com](http://www.millenniumchem.com))
- (2) Lanxess ([www.bayferrox.com](http://www.bayferrox.com))
- (3) Borchers ([www.borchers.com](http://www.borchers.com))
- (4) Elementis ([www.elementis.com](http://www.elementis.com))
- (5) Clariant ([www.clariant.com](http://www.clariant.com))

Updated: 25.01.2016

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