



Coatings & Dispersants

SURFONIC® 4630 Dispersant

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SURFONIC® 4630 Dispersant is 40% actives, universal pigment dispersant for aqueous pigment dispersion and does not contain organic solvents making it suitable for ultra-low VOC aqueous coatings. It combines charge and steric stabilization methods to easily disperse organic, inorganic, and carbon black pigments.

Recommended Use Levels

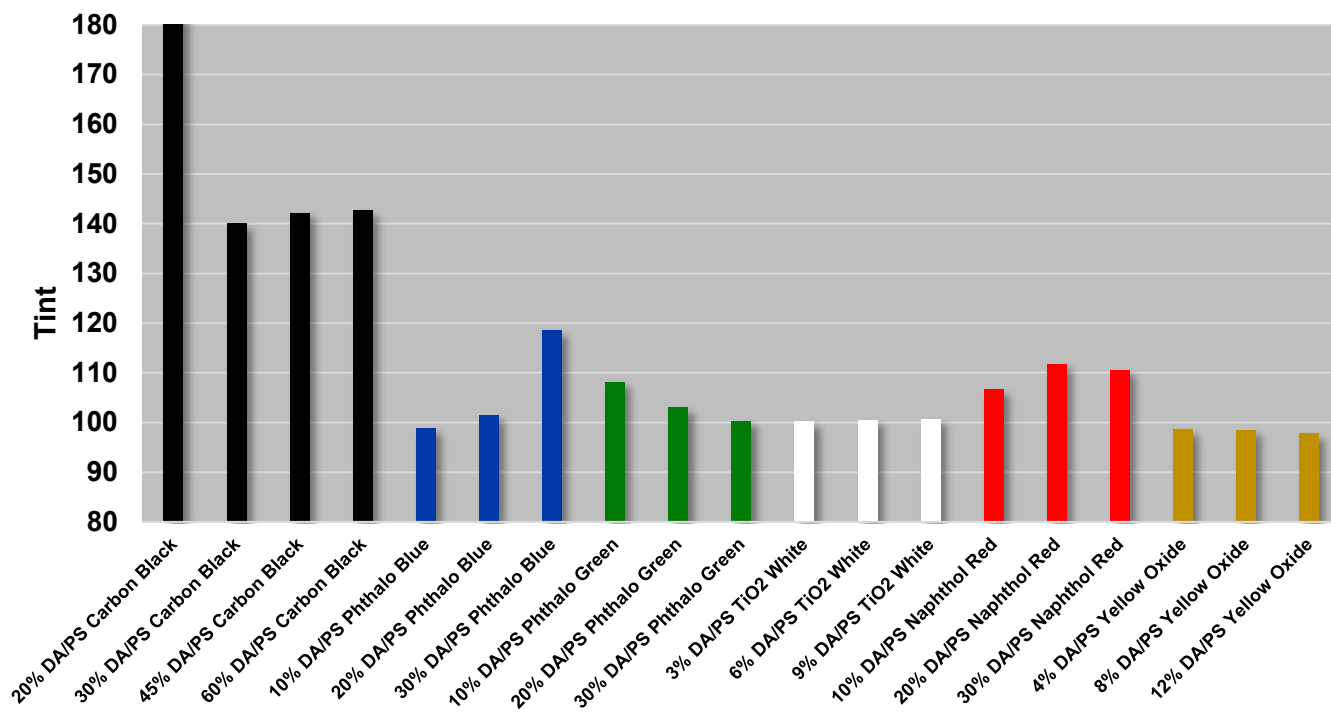
Pigment Type	Dispersant Actives on Pigment Solids	As Supplied on Pigment Solids
Organic Pigments	5% - 40%	10% - 100%
Inorganic Pigments	3% - 12%	7% - 30%
Extender Pigments	1% - 5%	2% - 12%
Carbon Black Pigments	20% - 60%	50% - 150%

Tint Strength Results

SURFONIC® 4630 Dispersant versus a commercial standard.

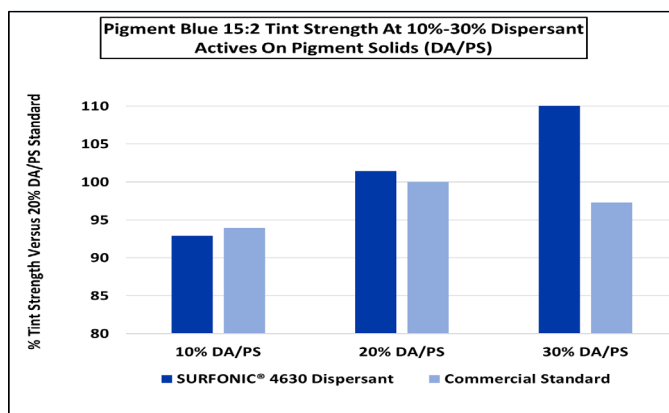
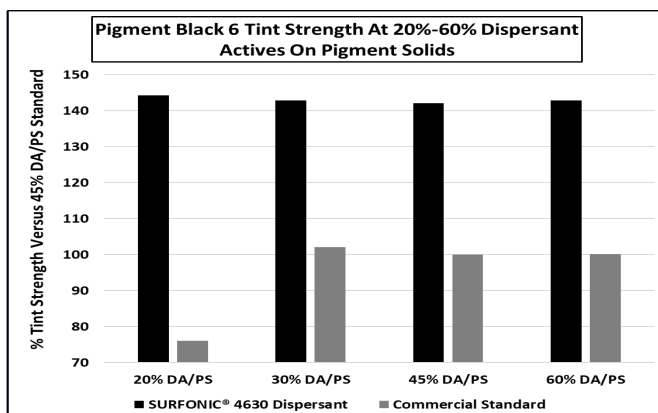
- Carbon Black (Pigment Black 6)
- Phthalocyanine Green (Pigment Green 7)
- Titanium Dioxide (Pigment White 6)
- Phthalocyanine Blue (Pigment Blue 15:2)
- Naphthol Red (Pigment Red 188)
- Yellow Iron Oxide (Pigment Yellow 42)

Tint strength of SURFONIC® 4630 Dispersant versus a commercial standard at the same level of dispersant actives on pigment solids (DA/PS)



Carbon Black Pigment (Pigment Black 6) Results

Formula				
Dispersant Actives on Pigment Solids (DA/PS)	20%	30%	45%	60%
Units	%	%	%	%
DI water	68.06	62.77	55.27	48.20
SURFONIC® 4630 Dispersant as supplied	10.00	15.00	22.50	30.00
Silicone based defoamer	1.94	2.23	2.23	1.80
Pigment Black 6	20.00	20.00	20.00	20.00
Total	100.00	100.00	100.00	100.00
Weight of sample (grams)	35.00	35.00	35.00	35.00
Beads / media (grams)	60.00	60.00	60.00	60.00
Pigment in Formula (%)	20.00%	20.00%	20.00%	20.00%



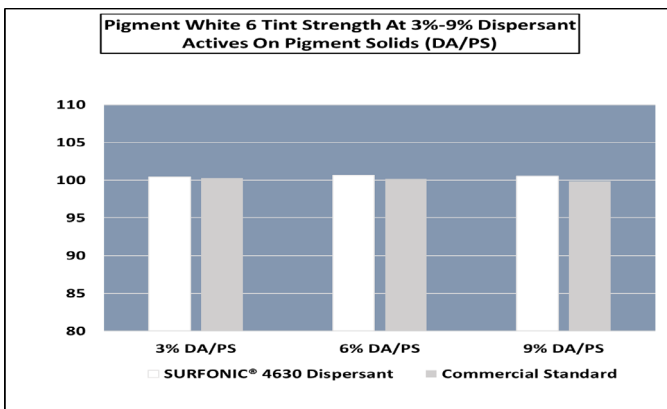
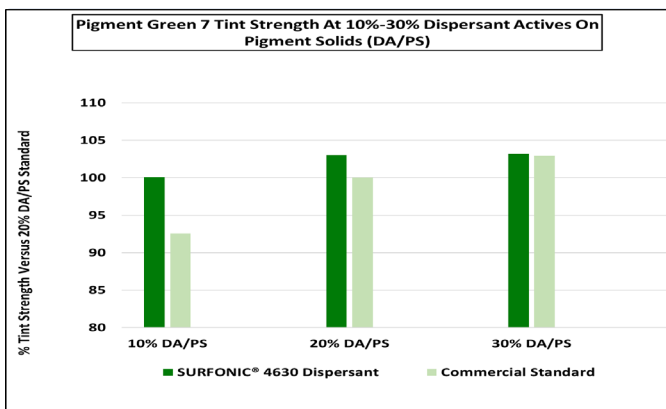
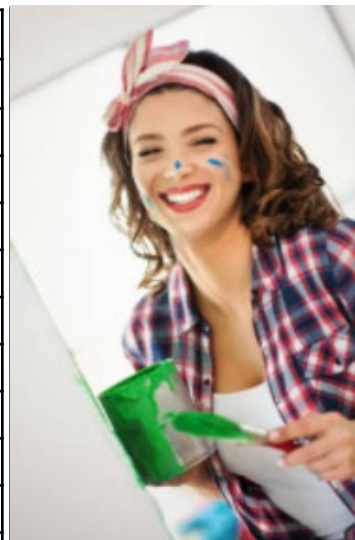
Phthalocyanine Blue Pigment (Pigment Blue 15:2) Results

Formula			
Dispersant Actives on Pigment Solids (DA/PS)	10%	20%	30%
Units	%	%	%
DI water	60.19	51.97	44.19
SURFONIC® 4630 Dispersant as supplied	7.50	15.00	22.50
Silicone based defoamer	2.31	3.03	3.31
Pigment Blue 15:2	30.00	30.00	30.00
Total	100.00	100.00	100.00
Weight of sample (grams)	35.00	35.00	35.00
Beads / media (grams)	60.00	60.00	60.00
Pigment in Formula (%)	30.00%	30.00%	30.00%



Phthalocyanine Green Pigment (Pigment Green 7) Results

Formula			
Dispersant Actives on Pigment Solids (DA/PS)	10%	20%	30%
Units	%	%	%
DI water	63.27	58.06	52.84
SURFONIC® 4630 Dispersant as supplied	5.22	10.43	15.65
Silicone based defoamer	1.51	1.51	1.51
Pigment Green 7	30.00	30.00	30.00
Total	100.00	100.00	100.00
Weight of sample (grams)	35.00	35.00	35.00
Beads / media (grams)	60.00	60.00	60.00
Pigment in Formula (%)	30.00%	30.00%	30.00%



Titanium Dioxide Pigment (Pigment White 6) Results

Formula			
Dispersant Actives on Pigment Solids (DA/PS)	3%	6%	9%
Units	%	%	%
DI water	24.35	20.20	16.04
SURFONIC® 4630 Dispersant as supplied	3.65	7.30	10.96
Silicone based defoamer	2.00	2.50	3.00
Pigment White 6	70.00	70.00	70.00
Total	100.00	100.00	100.00
Weight of sample (grams)	60.00	60.00	60.00
Beads / media (grams)	0.00	0.00	0.00
Pigment in Formula (%)	70.00%	70.00%	70.00%

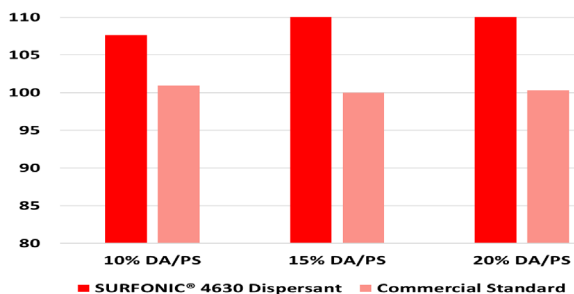


Naphthol Red Pigment (Pigment Red 188) Results

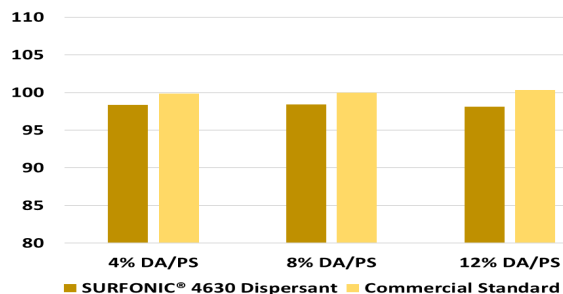
Formula			
Dispersant Actives on Pigment Solids (DA/PS)	10%	20%	30%
Units	%	%	%
DI water	67.25	64.13	60.50
SURFONIC® 4630 Dispersant as supplied	6.25	9.37	12.50
Silicone based defoamer	1.50	1.50	2.00
Pigment Red 188	25.00	25.00	25.00
Total	100.00	100.00	100.00
Weight of sample (grams)	35.00	35.00	35.00
Beads / media (grams)	60.00	60.00	60.00
Pigment in Formula (%)	25.00%	25.00%	25.00%



Pigment Red 188 Tint Strength At 10%-20% Dispersant Actives On Pigment Solids (DA/PS)



Pigment Yellow 42 Tint Strength At 4%-12% Dispersant Actives On Pigment Solids (DA/PS)



Yellow Iron Oxide Pigment (Pigment Yellow 42) Results

Formula			
Dispersant Actives on Pigment Solids (DA/PS)	4%	8%	12%
Units	%	%	%
DI water	33.20	27.00	20.80
SURFONIC® 4630 Dispersant as supplied	6.00	12.00	18.00
Silicone based defoamer	0.80	1.00	1.20
Pigment Yellow 42	60.00	60.00	60.00
Total	100.00	100.00	100.00
Weight of sample (grams)	60.00	60.00	60.00
Beads / media (grams)	0.00	0.00	0.00
Pigment in Formula (%)	60.00%	60.00%	60.00%



About Indorama

Indorama Ventures is a world-class chemical company and a global integrated leader in PET and fibers serving major customers in diversified end-use markets. Following our core strategies, we develop innovative products for customer needs and to make great products for society. Headquartered in Bangkok, Thailand, Indorama Ventures has operating sites in 31 countries on five continents – in Africa, Americas, Asia, Europe & Eurasia.

Integrated Oxides & Derivatives

Indorama Ventures Oxides & Derivatives is a leading chemical intermediates and surfactants producer with a diverse range of products in growth markets such as home & personal care, agrochemicals, oilfield technologies, fuel & lube additives and more.

In January 2020, Indorama Ventures Public Company Limited completed its acquisition of Huntsman's world-class integrated oxides and derivative business, including:

- **Surfactants:** Integrated producer of a wide range of products for home and personal care, oilfield technologies, agriculture and process industries.
- **Ethylene and Derivatives:** Highly integrated manufacturer of ethylene, ethylene oxide, ethylene glycol, ethanolamines and other derivatives.
- **Propylene Oxide & Derivatives:** Highly competitive technology offerings in propylene glycol, methyl tertiary butyl ether (MTBE) and other derivatives.

Our operating sites include a large flagship site on the US Gulf Coast (USGC) at Port Neches, as well as Chocolate Bayou, Dayton and Clear Lake in Texas, Lake Charles, Louisiana, Ankleshwar, India and Botany, Australia.

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