

EDAPLAN & METOLAT Guide Formulations for Inorganic Pigments

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Pigment White 6 - Titanium Dioxide

	Tiona AT-1 (Cristal)	Tiona 595 (Cristal)	Tiona 696 (Cristal)	Kronos 2190 (Kronos)			Kronos 2300 (Kronos)	
Water demin.	17.85	18.60	18.20	14.30	20.25	17.35	18.75	20.25
AGITAN 731	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
METOLAT 288	--	--	--	--	0.20	--	--	--
METOLAT 368	--	--	--	--	--	--	--	0.20
METOLAT 388	3.10	--	--	--	--	--	--	--
METOLAT 394	--	5.65	6.00	--	--	--	--	--
EDAPLAN 490	--	--	--	15.00	--	--	5.65	--
EDAPLAN 494	--	--	--	--	--	6.75	--	--
EDAPLAN 516	6.25	--	--	--	3.75	--	--	3.75
TAFIGEL AP 16		--	--	--	0.20	0.10	--	0.10
Ammonia (25%)	0.20	0.15	0.20	0.10	--	0.20	--	0.10
Pigment	72.00	75.00	75.00	70.00	75.00	75.00	75.00	75.00
% Dispersant in delivery form on pigment	13%	7.5%	8.0%	21.5%	5%	9%	7.5%	5%
% Dispersant solid on pigment	6%	4%	4.5%	8.5%	1%	4.5%	3%	1%

Pigment White 6 - Titanium Dioxide

	Ti-Pure R-900 (Du Pont)		Ti-Pure R-931 (Du Pont)		Sumtitan R 202 (Sumykhinprom)		Sumtitan R 203 (Sumykhinprom)	
Water demin.	19.10	15.30	19.80	25.10	15.05	24.75	15.70	24.75
AGITAN 731	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
METOLAT 394	10.20	--	--	14.20	--	--	--	--
EDAPLAN 490	--	14.00	19.50	--	14.00	--	10.90	--
EDAPLAN 516	--	--	--	--	--	6.75	--	6.75
Ammonia (25%)	0.10	0.10	0.10	0.10	0.35	0.40	0.30	0.40
Pigment	70.00	70.00	60.00	60.00	70.00	67.50	72.50	67.50
% Dispersant in delivery form on pigment	8%	20%	32.5%	31%	20%	10%	15%	10%
% Dispersant solid on pigment	4.5%	8%	13%	17%	8%	2%	6%	2%

Pigment White 6 - Titanium Dioxide

	Tronox CR 826 (Tronox)	Tronox CR 828 (Tronox)		Tioxide TR 52 (Huntsman)	Tioxide TR 92 (Huntsman)	Rutil RC 82 (Cinkarna)
Water demin.	12.95	18.65	15.30	22.40	16.10	15.15
AGITAN 731	0.50	0.50	0.50	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10	0.10	0.10	0.10
METOLAT 394	11.25	10.50	--	7.00	5.80	14.00
EDAPLAN 494	--	--	14.00	--	--	--
Ammonia (25%)	0.20	0.25	0.10	--	--	0.25
Pigment	75.00	70.00	70.00	70.00	77.50	70.00
% Dispersant in delivery form on pigment	15%	15%	20%	10%	7.5%	20%
% Dispersant solid on pigment	8.5%	8.5%	10%	5.5%	4.1%	11%

Pigment White 6 - Transparent Titanium Dioxide

	MT-500 HD (Tayca)	MT-700 HD (Tayca)	UV-Titan L 530 (Huntsman)		
Water demin.	28.90	28.90	26.15	11.35	22.90
AGITAN 731	0.50	0.50	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10	0.10	0.10
METOLAT 394	20.00	20.00	42.00	--	--
EDAPLAN 490	--	--	--	57.75	--
EDAPLAN 494	--	--	--	--	46.20
Ammonia (25%)	0.50	0.50	1.25	0.30	0.30
Pigment	50.00	50.00	30.00	30.00	30.00
% Dispersant in delivery form on pigment	40%	40%	140%	192.5%	154%
% Dispersant solid on pigment	22%	22%	77%	77%	77%

Pigment Yellow 42 - Iron Oxide Yellow

	Bayferrox 3910 (Lanxess)	Bayferrox 3910 LV (Lanxess)	Bayferrox 3920 (Lanxess)		
Water demin.	27.20	21.20	27.00	15.20	18.65
AGITAN 731	0.50	0.50	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10	0.10	0.10
EDAPLAN 490	--	--	--	14.00	--
EDAPLAN 494	--	--	--	--	15.60
METOLAT 394	12.00	13.00	12.00	--	--
Ammonia (25%)	--	0.20	--	0.20	0.15
AMP 90	0.20	--	0.40	--	--
Pigment	60.00	65.00	60.00	70.00	65.00
% Dispersant in delivery form on pigment	20%	20%	20%	20%	24%
% Dispersant solid on pigment	11%	11%	11%	8%	12%

Pigment Yellow 42 - Iron Oxide Yellow

	Cathaycoat Yellow YA21E (Cathay)	Cathaycoat Yellow YS21 (Cathay)	Nubifer Y-5020 (Nubiola)		SIOF 1035 (SIOF)
Water demin.	24.40	27.20	30.60	30.60	37.05
AGITAN 731	0.50	0.50	0.10	0.10	0.50
Acticide MBS	0.10	0.10	--	--	0.10
Propylene glycol	--	--	3.00	3.00	--
EDAPLAN 490	--	--	6.00	--	--
EDAPLAN 494	4.90	6.50	--	6.00	12.00
TAFIGEL AP 10	--	0.50	--	--	--
Bentone EW	--	--	--	--	0.20
Ammonia (25%)	0.10	0.20	0.30	0.30	0.15
Pigment	70.00	65.00	60.00	60.00	50.00
% Dispersant in delivery form on pigment	7%	10%	7%	10%	24%
% Dispersant solid on pigment	3.5%	5%	2.8%	5%	12%

Pigment Yellow 42 - Transparent Iron Oxide Yellow

	BTY-101 (Shangyu Chemsfield)	Cappoxyt Yellow 4214 X (Cappelle)	S 102 W (Zhenjiang Suncom)	Sicotrans L 1916 (BASF)	Transoxid AC 0575 (Huntsman)	
Water demin.	16.70	38.50	39.90	21.15	19.15	30.00
AGITAN 731	0.50	0.50	0.50	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10	0.10	0.10	0.10
METOLAT 394	27.00	22.80	--	16.00	18.00	--
EDAPLAN 494	--	--	24.50	--	--	21.75
Ammonia (25%)	2.60	0.10	--	0.25	0.25	0.05
Pigment	30.00	38.00	35.00	30.00	30.00	33.00
	Dispersing					
Water demin.	23.10	--	--	32.00	32.00	14.60
% Dispersant in delivery form on pigment	20%	60%	70%	53%	60%	66%
% Dispersant solid on pigment	11%	33%	35%	29%	33%	33%

Pigment Yellow 184 – Bismuth Vanadate

	Brufasol Al 2300 (Bruchsaler Farbenfabrik)	Brufasol Al 2301 (Bruchsaler Farbenfabrik)
Water demin.	11.25	11.25
AGITAN 731	0.50	0.50
Acticide MBS	0.10	0.10
METOLAT 394	17.50	17.50
Ammonia (25%)	0.50	0.50
TAFIGEL AP 10	0.15	0.15
Pigment	70.00	70.00
% Dispersant in delivery form on pigment	25%	25%
% Dispersant solid on pigment	14%	14%

Pigment Yellow 216 – Tin-Zinc-Rutil

	Solaplex Orange 34H1004 (Huntsman)
Water demin.	12.95
AGITAN 731	0.50
Acticide MBS	0.10
METOLAT 394	11.25
TAFIGEL AP 15	0.10
Ammonia (25%)	0.10
Pigment	75.00
% Dispersant in delivery form on pigment	15%
% Dispersant solid on pigment	8.5%

Pigment Red 101 – Iron Oxide Red

	Bayferrox 105 M (Lanxess)	Bayferrox 110 (Lanxess)	Bayferrox 130 M (Lanxess)			Bayferrox TPNL P2 (Lanxess)
Water demin.	18.20	15.00	24.40	15.05	27.40	15.00
AGITAN 731	0.50	0.50	0.50	0.50	0.50	0.50
Acticide MBS	0.10	--	0.10	0.10	0.10	0.10
EDAPLAN 395	--	--	15.00	--	--	--
EDAPLAN 490	--	--	--	14.00	--	--
EDAPLAN 494	21.00	--	--	--	12.00	14.00
METOLAT 394	--	19.50	--	--	--	--
TAFIGEL AP 10	--	--	--	0.25	--	0.20
Ammonia (25%)	0.20	--	--	0.10	--	0.20
Pigment	60.00	65.00	60.00	70.00	60.00	70.00
% Dispersant in delivery form on pigment	35%	30%	25%	20%	20%	20%
% Dispersant solid on pigment	17.5%	16.6%	7.5%	8%	10%	10%

Pigment Red 101 – Iron Oxide Red

	Cathaycoat Red RA11A (Cathay)	Cathaycoat Red RA13A (Cathay)	Cathaycoat Red RS13 (Cathay)
Water demin.	24.05	21.35	21.35
AGITAN 731	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10
EDAPLAN 494	4.90	10.10	10.10
TAFIGEL AP 10	0.20	0.20	0.20
Ammonia (25%)	0.25	0.25	0.25
Pigment	70.00	67.50	67.50
% Dispersant in delivery form on pigment	7%	15%	15%
% Dispersant solid on pigment	3.5%	7.5%	7.5%

Pigment Red 101 – Transparent Iron Oxide Red

	Sicotrans Red L 2915 D (BASF)	Sicotrans Red L 2816 (BASF)	Sicotrans Red L 2715 D (BASF)	Cappoxyt Red 4435 B (Cappelle)	Cappoxyt Red 4437 B (Cappelle)
Water demin.	32.90	21.40	36.50	21.40	38.60
AGITAN 731	0.50	0.50	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10	0.10	0.10
METOLAT 394	19.00	16.00	16.00	16.00	22.80
Ammonia (25%)	--	--	0.15	--	--
Pigment	47.50	30.00	30.00	30.00	38.00
Dispersing					
Water demin.	--	32.00	16.75	32.00	--
% Dispersant in delivery form on pigment	40%	53%	53.5%	53%	60%
% Dispersant solid on pigment	22%	29%	29.5%	29%	33%

Pigment Red 101 – Transparent Iron Oxide Red

	Transoxid AC 0544 (Huntsman)	Transoxid AC 1000 (Huntsman)	Transoxid AC 1005 (Huntsman)	Transoxid AC 1070 (Huntsman)	Transoxid AC 1071 (Huntsman)		
Water demin.	24.95	15.00	46.80	21.40	23.55	26.70	27.00
AGITAN 731	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10	0.10	0.10	0.10	0.10
METOLAT 394	21.00	20.00	17.50	16.00	23.25	--	--
EDAPLAN 490	--	--	--	--	--	32.00	--
EDAPLAN 494	--	--	--	--	--	--	28.00
Ammonia (25%)	0.15	0.40	0.10	--	0.20	0.10	0.10
Pigment	35.00	40.00	35.00	30.00	32.00	32.00	35.00
Dispersing							
Water demin.	18.30	24.00	--	32.00	20.40	8.60	9.30
% Dispersant in delivery form on pigment	60%	40%	50%	53%	73%	100%	80%
% Dispersant solid on pigment	33%	22%	27.5%	29%	40%	40%	40%

Pigment Green 17 – Chrome Oxide Green

	Chrome oxide green GN-M (Lanxess)
Water demin.	33.40
AGITAN 731	0.50
Acticide MBS	0.10
METOLAT 394	6.00
Pigment	60.00
% Dispersant in delivery form on pigment	10%
% Dispersant solid on pigment	5.5%

Pigment Blue 29 – Ultramarine Blue

	Ultramarine Blue 08 (Nubiola)
Water demin.	24.65
AGITAN 731	0.50
Acticide MBS	0.10
METOLAT 394	9.75
Pigment	65.00
% Dispersant in delivery form on pigment	15%
% Dispersant solid on pigment	8.25%

Pigment Black 11 – Iron Oxide Black

	Bayferrox 318 M (Lanxess)		Bayferrox 330 (Lanxess)		
Water demin.	27.30	15.10	26.25	26.35	22.25
AGITAN 731	--	0.50	0.50	0.50	0.50
AGITAN 351	0.50	--	--	--	--
Acticide MBS	0.10	0.10	0.10	0.10	0.10
METOLAT 394	12.00	--	17.60	--	--
EDAPLAN 490	--	24.00	--	17.60	--
EDAPLAN 494	--	--	--	--	22.00
Ammonia (25%)	0.10	0.30	0.55	0.45	0.15
Pigment	60.00	60.00	55.00	55.00	55.00
% Dispersant in delivery form on pigment	20%	40%	32%	32%	40%
% Dispersant solid on pigment	11%	16%	17.5%	13%	20%

Pigment Black 11 – Iron Oxide Black

	Cathaycoat Black BA 30 (Cathay)	Cathaycoat Black BA 33 (Cathay)	Cathaycoat Black BB 30 (Cathay)
Water demin.	26.50	27.80	27.80
AGITAN 731	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10
EDAPLAN 490	7.80	6.50	6.50
Ammonia (25%)	0.10	0.10	0.10
Pigment	65.00	65.00	65.00
% Dispersant in delivery form on pigment	12%	10%	10%
% Dispersant solid on pigment	4.8%	4%	4%