



Organic Pigment

Megha Dye Chem
Navya Chem Industries
Meghnagar Organics Pvt Ltd



PIGMENT POWDERS

These organic pigments find wide application in plastics, paints liquid inks, Textiles, rubber, cosmetics, artist colours, etc. they have excellent dispersion and ethology characteristics required for printing ink requirements with good transparency gloss and tone these pigments are homogenous belonging to azo or phthalocyanine groups.

The physical chemical, colouristic as well as fastness properties of the pigments depend to a large extent on the type of binders used, presence of driers, hardeners, the substrate and film thickness etc.

Physical Properties

Specific Gravity: Specific gravity has been determined in an inert liquid at 20°C

Oil Absorption : 10gm of pigment is placed on a glass plate and acid refined linseed oil is added from a burette in drops, and the paste rubbed to get a spreadable paste the quantity of Oil required for 100gms of pigment is then calculated and expressed as **ml. Oil / 100 grm pigment.**

Light fastness: The prints of the pigments dispersed in printing ink medium is exposed along with standard blue scale and rating expressed in 1 to 8 scale 8 denoted excellence and 1 denotes poor fastness.

Heat Resistance: A stoving paint of the pigment is prepared in non-yellowing medium and applied to a tin panel, the temperature upto which there is negligible change in the shade after stoving for 30 minutes is noted.

Fastness to solvents and chemicals: The test is carried out by placing 0.5gms of pigment in a folded paper, sealed at the top and suspended in 20 cc of solvent in a stopped test tube at room temperature for 24 hours. the staining noted and expressed in 1 to 5 scale.

In case of water, acid or alkali 0.5 gm of pigment is mixed with 10ml each and these liquid heated in a water bath for 10 minutes cooled and filtered, the filtrate is assessed for colouration.

Soap Bleeding: The test is carried out by placing completely dried draw down/print on 20% jelly made with neutral white

soap for 24 hours extent of bleeding noted and expressed in 1 to 5 scale.

Fastness Data:

Light fastness: 1-8 Scale, 8 denotes excellent and 1 denotes poor.
other fastness: **1-5 Scale** 5 denotes excellent and 1 denotes poor.

Abbreviations:

- - Suitable
- ⊙ - Limited Suitability

Sieve Residue

Sieve Residue is determined by working up a known quantity of pigment in water and carrying out wet sieving of pigment water slurry under running tap water using gentle brushing with soft bristle brush, residue obtained on 240 mesh (0.063 mm) screen dried, weighed and reported in accordance with DIN 53195.

Moisture content

The percentage by mass of matter volatile from a pigment sample is determined at 105°C by means of an infra red lamp, the sample is being heated off until it reaches constant weight (according to ISO 787/2) and weight loss is reported.





pH of water extract

pH is determined as per DIN ISO 787. An aqueous pigment slurry containing 5% pigment is filtered off and filter's pH value is measured by a calibrated glass electrode pH meter at room temperature and reported.

Spectrophotometry

Sample preparation for spectrophotometer exposure is carried out carefully and accurately using respective pigment. Full shade(full tones) are self colour of pigments Reduction shades (reduction tones) are reduced shade with TiO₂ Rutile.

Spectrophotometer settings used are

Area View :Small area view
Observer :10°
light source : D65 artificial daylight
Geometry : 8° Diffuse spec. Incl.

Residual shade in accordance with CIElab formula (DIN6174) is divided into dL,dC dH and dE.

Weather fastness

Weather fastness is carried out on controlled prepared stoving paint of respective pigment in full shade and reduction shade in duly calibrated QUV weatherometer for 600 hours and reported on 1-5 scale greyscale. (1-poor and 5-excellent)

Heat stability

Determination of heat stability is determination of temperature in °C at which the discolouration corresponds to the colour difference, dE-3.0 units.

Printing inks :

Tested in metal deco (long oil alkyd resin system) for 30 mins.

Paints :

Tested in alkyd/melamine system for 30 mins.

Plastic :

Tested in polyolefins.
it is however advisable for a user to carry out heat stability tests in application under given set of processing conditions Intended.

Fastness to bleed (plastics)

Fastness to bleed or migration resistance is the extent of bleeding into wrapper/ rubber / white polythene sheet at **30 C** for 24 hours. Migration resistance is reported on 1-5 scale (1-poor, 5-excellent).

Note

The information provided is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described of their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our general conditions of sale.



Sr. No.
Name
C.I. Genric Name
C.I Constitution No.
Pigment Class

Mass tone

Tint tone

Sr. No.	Name C.I. Genric Name C.I Constitution No. Pigment Class	Mass tone	Tint tone	Physical Properties																	
				Resistance to													Light fastness		Sheetfed	Heatset	
				Specific Gravity	Bulk Volume (litres/kg)	Oil Absorption (gm / 100gm)	Ph Of 2% Extract	Water	5% Acid (HCL)	5% Alkali(NaOH)	Lime	Ethanol	Ethyl Acetate	Xylene	Methyl Ethyl Ketone	Mineral Turpentine	D.O.P	Full Tone			Tint Tone
1.	Yellow G (pigment Yellow1) 11680 Monoazo Yellow			1.5	8	35 _{±2}	6.8	5	5	5	4-5	2	4	1-2	2-3	3-4	4	7	4-5		
2.	Yellow 10G (pigment Yellow3) 11710 Monoazo Yellow			1.62	5	33 _{±2}	6.8	5	5	5	5	3-4	3	2-3	3	4-5	4	7	6	●	
3.	Yellow OP (pigment Yellow12) 21090 Diarylde Yellow			1.4	9.6	33 _{±2}	6.8	5	4	4	5	4-5	5	4	4	4-5	4	4	2	●	●
4.	Yellow TLU-SPL (pigment Yellow12) 21090 Diarylde Yellow			1.6	2.8	26 _{±2}	7	5	4	4	3-4	3-4	4-5	3-4	3-4	4	4	5	4	●	●
5.	Yellow GRX-OP (pigment Yellow13) 21100 Diarylde Yellow			1.45	8	34 _{±2}	6.8	5	5	5	5	5	4	3-4	4	5	5	6-7	4-5	●	●
6.	Yellow GRX-TR (pigment Yellow13) 21100 Diarylde Yellow			1.5	4	36 _{±2}	7	5	5	5	4	5	4	3	3	4	4-5	6	5	●	●
7.	Yellow GRX-NC (pigment Yellow13) 21100 Diarylde Yellow			1.6	2	18 _{±2}	7	5	5	5	4	3-4	4	3-4	3	4-5	4	5-6	4-5	●	●
8.	Yellow GRT-OP (pigment Yellow14) 21095 Diarylde Yellow			1.4	8	33 _{±2}	6.8	5	4	4	3-4	4-5	5	3-4	3-4	4-5	5	5	3	●	●
9.	Yellow GRT PGID (pigment Yellow 14) 21095 Diarylde Yellow			1.5	4.2	32 _{±2}	7	5	4	4	4-5	5	4-5	3	3-4	4-5	4-5	6	4	●	●
10.	Bri. Yellow 5GSC (pigment Yellow 74) 11741 Monoazo Yellow			1.5	5	35 _{±2}	6.8	5	5	5	5	4	4	4	3-4	4-5	4-5	7	5-6	●	⊙



Printing Inks											Coating										Plastics						Other Appl.					
Paste inks			Liquid inks								Decorative		Industrial				Automotive				Polymers						Other Appl.					
			Flexo		Gravure								Stoving Paint		Powder Coating		Coil Coating		Oem										Refinish			
Coldset	Silkset	Metal Deco	Water Based	Solvent	Vinyl	Nitro Cellulose (nc)	Polymide (pa)	Poly Urethane (pu)	Nc / Pa	Nc / Pu	Cl-polypropylene	Publication Gravure	Water Based	Air Drying Enamel	Acid Cured	Amine Cured	Powder Coating	Coil Coating	Oem	Refinish	Heat Stability °C	Fastness To Overspray	Polyolifins-PP/ndpe/ldpe	Engineering Polymers	PVC	Rubber	Heat Stability °C	Fastness To Migration	Leather Paste	Textile Printing		
☉	●		●										●	●	●						180	3								●	●	
	●												●	●	●						180	3							●	●		
●		☉	●																					●	●	150	3			●		
●		☉		●	●	●	●	●	●	●	●	●																				
●		☉	●										☉	●			☉				180	3	●	●	●	200	4-5	●	●			
●		☉			☉	☉	●																●	●	☉	200	4					
●		☉	●	●	●	●	●	●	●	●	●	●																				
●		☉	●																									3				
●		☉	●	●	●	●	●	●	●	●	●	●																				
☉	●		●	●	●	●	●	●	●	●	●	●	●	●	☉	●	●				180	3										●



Sr. No. **Name**
C.I. Genric Name
C.I Constitution No.
Pigment Class

Mass tone

Tint tone

				Physical Properties														Light fastness			
				Resistance to																	
				Specific Gravity	Bulk Volume (litres/kg)	Oil Absorption (gm / 100gm)	Ph Of 2% Extract	Water	5% Acid (HCL)	5% Alkali(NaOH)	Lime	Ethanol	Ethyl Acetate	Xylene	Methyl Ethyl Ketone	Mineral Turpentine	D.O.P	Full Tone	Tint Tone	Sheetfed	Heatset
11.	Yellow 2GSC (pigment Yellow 74) 11741 Monoazo Yellow			1.55	4	30 ₋₂	6.8	5	5	5	5	5	5	5	4	5	5	7	6	☉	☉
12.	Orange 5 EY (pigment Orange 5) 12075 Monoazo ^β -Nepthol			1.45	6.4	33 ₊₂	6.8	5	5	5	5	5	3	3	3	4	5	4-5	3-4	●	
13.	Orange 5 NC (pigment Orange 5) 12075 Monoazo ^β -Nepthol			1.6	3.2	33 ₊₂	6.8	5	5	5	5	4-5	3-4	3	3-4	4-5	4-5	5-6	4-5	●	●
14.	Fast Orange SC (pigment Orange 13) 21100 Disazopyrazolone			1.5	7-8	39 ₊₂	6.8	5	5	4-5	5	4	3-4	3	3-4	4	5	7	5	●	●
15.	Red F2R (pigment Red 2) 12310 Monoazo Napthol AS			1.4	4-5	36 ₊₂	6.8	5	5	3	4	3	3	2	2-3	3-4	3	6-7	4-5	●	●
16.	Hansa Red SC (pigment Red 3) 12120 Monoazo ^β -Nepthol			1.5	6	33 ₊₂	6.8	5	5	5	5	3	3-4	2-3	2-3	4	5	6	5-6		
17.	Signal Red SC (pigment Red 4) 12085 Monoazo ^β -Nepthol			1.55	7-8	33 ₊₂	6.8	5	4-5	4	4-5	4	3-4	3	3-4	4	5	6	3	●	●
18.	Red F4R (pigment Red 8) 12335 Monoazo Nepthol AS			1.45	7-8	36 ₊₂	6.8	5	4	4-5	5	4	3-4	3	3-4	4	3	5	4	●	
19.	Bordeaux F2R (pigment Red 12) 12385 Monoazo Nepthol AS			1.4	7-8	35 ₊₂	6.8	5	4	4	4	3	2	2-3	1-2	4	4	7	4-5		
20.	Red Toner 2B (Ba) (pigment Red 48:1) 15865:1 Monoazo BONA, Ba			1.6	5	33 ₊₂	7	5	2	4	4	3-4	3-4	4	3-4	4	5	5	4		



Printing Inks													Coating										Plastics						Other Appl.				
Paste inks			Liquid inks										Decorative		Industrial				Automotive				Polymers						Other Appl.				
			Flexo		Gravure										Water Based		Air Drying Enamel		Stoving Paint		Acid Cured										Amine Cured		Powder Coating
Coldset	Silkset	Metal Deco	Water Based	Solvent	Vinyl	Nitro Cellulose (nc)	Polymide (pa)	Poly Urethane (pu)	Nc / Pa	Nc / Pu	Cl-polypropylene	Publication Gravure	Water Based	Air Drying Enamel	Stoving Paint	Acid Cured	Amine Cured	Powder Coating	Coil Coating	Oem	Refinish	Heat Stability °C	Fastness To Overspray	Polyolifins-PP/hdpe/ldpe	Engineering Polymers	PVC	Rubber	Heat Stability °C	Fastness To Migration	Leather Paste	Textile Printing		
☉			●	☉	☉		☉	☉		☉			●	●	●	●		●				200	5										
	●		●										●	●		●						180	4-5										
●	●			●	●	●	●	●	●	●	●	●																					
●		●	●	●	●	●	●	●	●	●	●	☉	●	●		●		☉				150	4	●	●	●	200	3-4			●		
●			●	●	●	●	●	●	●	●	●	●	●	●																	●		
													●	●		●	●					180	3										
●	●		●	●	●	●	●	●	●	●			●	●																		●	
●			●		●		●																									●	
													●	●	☉	●	☉					160	3							●	●		
																								●		●	●	220	4				



Sr. No. **Name**
C.I. Genric Name
C.I Constitution No.
Pigment Class

Mass tone

Tint tone

Sr. No.	Name C.I. Genric Name C.I Constitution No. Pigment Class	Mass tone	Tint tone
21.	Red Toner 2B (Ca) (pigment Red 48:2) 15865:2 Monoazo BONA, Ca		
22.	Red Toner 2B (Sr) (pigment Red 48:3) 15865:3 Monoazo BONA, Sr		
23.	Red Toner 2B (Mn) (pigment Red 48:4) 15865:4 Monoazo BONA, Mn		
24.	Lake Red SC-507 (pigment Red 53:1) 15585:1 Monoazo, β-Napthol, Ba		
25.	Lake Red STL (pigment Red 53:1) 15585:1 Monoazo, β-Napthol, Ba		
26.	Lake Red SCLL (pigment Red 53:1) 15585:1 Monoazo, β-Napthol, Ba		
27.	Rubine Red Toner UPY (pigment Red 57:1) 15850:1 Monoazo BONA, Ca		
28.	Rubine Red Toner PBC (pigment Red 57:1) 15850:1 Monoazo BONA, Ca		
29.	Rubine Red Toner C7B (pigment Red 57:1) 15850:1 Monoazo BONA, Ca		
30.	Rubine Red Toner NC (pigment Red 57:1) 15850:1 Monoazo BONA, Ca		

Physical Properties																	Light fastness	
Specific Gravity	Bulk Volume (litres/kg)	Oil Absorption (gm / 100gm)	Ph Of 2% Extract	Water	5% Acid (HCL)	5% Alkali(NaOH)	Lime	Ethanol	Ethyl Acetate	Xylene	Methyl Ethyl Ketone	Mineral Turpentine	D.O.P	Resistance to		Sheetfed	Heatset	
														Full Tone	Tint Tone			
1.45	6-7	42+2	7	5	2-3	2-3	3-4	4	4	3-4	3-4	4	5	3	3			
1.55	3-4	36+2	7	5	2	4	4	4-5	4-5	4-5	4-5	5	5	6-7	5-6			
1.55	3-4	36+2	7	5	1	2	2-3	2	4	4	4	4	5	4	4			
1.75	6-7	38+2	7	5	2	4	4-5	4	4	4	3-4	4-5	4	5	3	•	•	
1.8	4-5	37+2	7	462	3-4	4-5	4-5	3-4	3-4	3-4	3-4	4	5	5	3	•	•	
1.75	4-5	35+2	7	5	3	4	4-5	4	4	4	4	4	5	4	2			
1.5	6-7	42+2	7	4-5	1	3	3-4	3	3	3	2	3-4	5	5	4	•	•	
1.6	5-6	48+2	7	4-5	3	2	2-3	3	3	3	3	3-4	5	5	3	•	•	
1.6	5-6	48+2	7	4-5	3	2	2-3	3	3	3	3	3-4	4	5	3	•	•	
1.65	2-3	45+2	7	4-5	1	3	3-4	3	3	3	2	3-4	4	6	5	•	•	



Printing Inks											Coating										Plastics						Other Appl.					
Paste inks			Liquid inks								Decorative		Industrial				Automotive				Polymers						Other Appl.					
			Flexo		Gravure								Water Based		Air Drying Enamel		Stoving Paint		Acid Cured										Amine Cured		Powder Coating	
Coldset	Silkset	Metal Deco	Water Based	Solvent	Vinyl	Nitro Cellulose (nc)	Polymide (pa)	Poly Urethane (pu)	Nc / Pa	Nc / Pu	Cl-polypropylene	Publication Gravure	Water Based	Air Drying Enamel	Stoving Paint	Acid Cured	Amine Cured	Powder Coating	Coil Coating	Oem	Refinish	Heat Stability °C	Fastness To Overspray	Polyolifins-PP/hdpe/lcpe	Engineering Polymers	PVC	Rubber	Heat Stability °C	Fastness To Migration	Leather Paste	Textile Printing	
																	☉							●	●	●	●	240	4	●		
																		☉						●	●	●	●	240	4			
																		●				180	5									
●		●	●		●	●	●		●									●						●	●	●	250	5				
●		●	●	●	●	●	●	●	●	●	●	●																				
		☉	●																					●	●	●	250	4				
●					●	●	●		●				●	●	●								180	4	●	●	●	220	4	●		
●	☉	☉	●											●	☉			●					180	4	●	●	●	220	4	●		
●	☉	☉	●										●	☉			●						180	4	●	●	●	220	4	●		
●	●	●	●	●	●	●	●	●	●	●	●	●																				

● Suitable ☉ Limited Suitability



Sr. No.
Name
C.I. Genric Name
C.I Constitution No.
Pigment Class

Mass tone

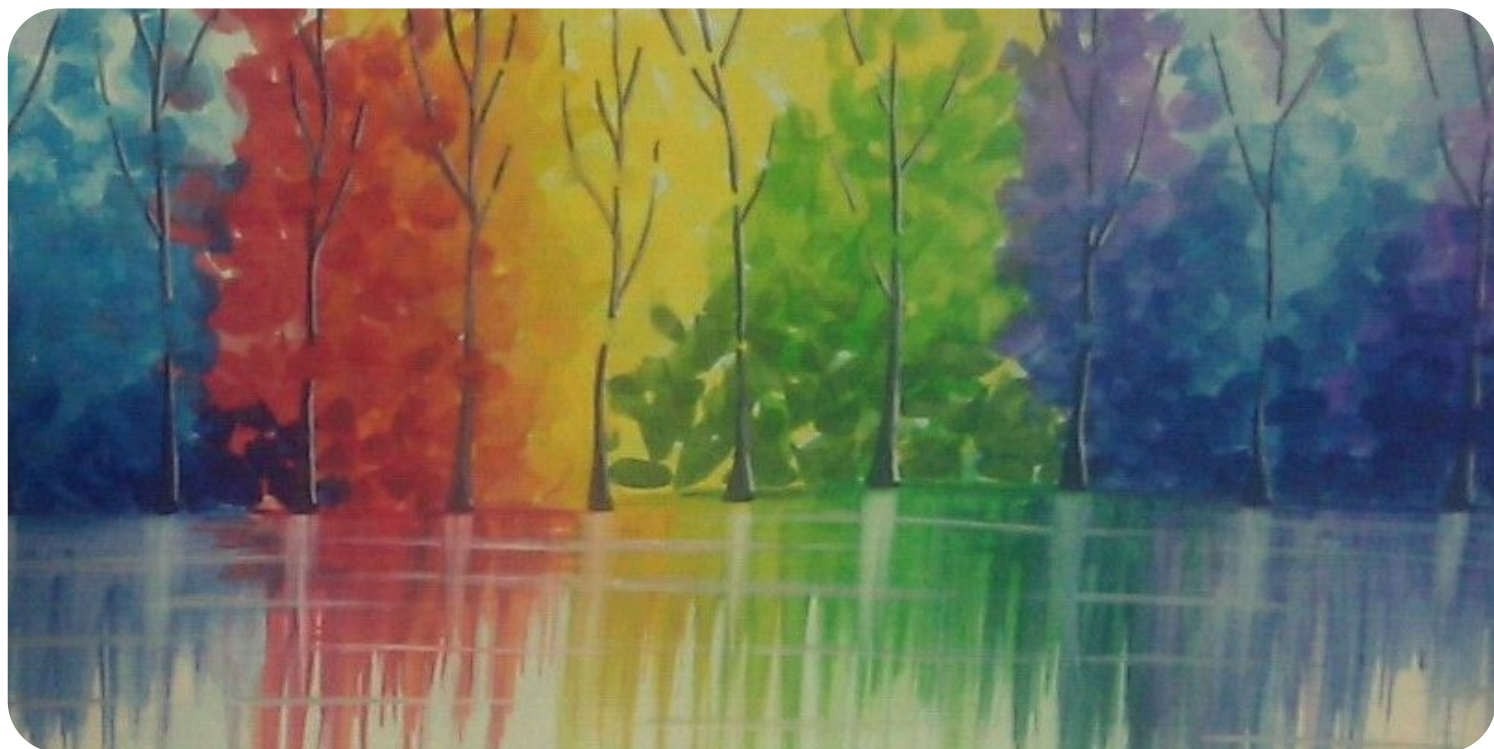
Tint tone

Sr. No.	Name C.I. Genric Name C.I Constitution No. Pigment Class	Mass tone	Tint tone
31.	Maroon Toner (pigment Red 63:1) 15880:1 Monoazo BONA, Ca		
32.	Fast Red SC-FGR (pigment Red 112) 12370 Monoazo Napthol AS		
33.	Fast Red SC-FGRO2 (pigment Red 112) 12370 Monoazo Napthol AS		
34.	Red F3RK-OP (pigment Red 170) 12475 Monoazo Napthol, AS		
35.	Red F5RK (pigment Red 170) 12475 Monoazo Napthol, AS		
36.	Red F5RK-OP (pigment Red 170) 12475 Monoazo Napthol, AS		

Physical Properties																	Light fastness		
Specific Gravity	Bulk Volume (litres/kg)	Oil Absorption (gm / 100gm)	Ph Of 2% Extract	Water	5% Acid (HCL)	5% Alkali(NaOH)	Lime	Ethanol	Ethyl Acetate	Xylene	Methyl Ethyl Ketone	Mineral Turpentine	D.O.P	Full Tone	Tint Tone	Sheetfed	Heatset	Resistance to	
1.6	6-7	43+2	7	4-5	1	3	3-4	3-4	3-4	4	3	4	5	6	3-4				
1.4	8-9	35+2	6.8	5	5	3-4	4	4	3-4	3	3-4	4	5	6-7	5	●	●		
1.4	7-8	33+2	6.8	5	5	5	5	4	4	4	4	4	5	7-8	7-8				
1.5	4-5	40+2	6.8	5	5	5	5	5	4-5	5	4	5	5	7-8	7	●	⊙		
1.55	5-6	33+2	6.8	5	5	5	5	4-5	4-5	4-5	4	4	4	7	7	●	⊙		
1.6	3-4	30+2	6.8	5	5	5	5	4-5	4-5	4-5	4	4	4	7	7	●	⊙		



Printing Inks													Coating										Plastics						Other Appl.		
Paste inks			Liquid inks										Decorative		Industrial				Automotive				Polymers						Other Appl.		
			Flexo		Gravure										Water Based		Air Drying Enamel		Stoving Paint		Acid Cured										Amine Cured
Coldset	Silkset	Metal Deco	Water Based	Solvent	Vinyl	Nitro Cellulose (nc)	Polymide (pa)	Poly Urethane (pu)	Nc / Pa	Nc / Pu	Cl-polypropylene	Publication Gravure	Water Based	Air Drying Enamel	Stoving Paint	Acid Cured	Amine Cured	Powder Coating	Coil Coating	Oem	Refinish	Heat Stability °C	Fastness To Overspray	Polyolifins-PP/ndpe/ldpe	Engineering Polymers	PVC	Rubber	Heat Stability °C	Fastness To Migration	Leather Paste	Textile Printing
•			•	•	•	•	•		•		•		•	•			•					160	4			•		160	4	•	
													•	•	•			•				180	3								•
													•	•	•	•	•	•				180	3								•
•	•	•	•	•	•	•	•		•				•	•	•	•	•			•	•	200	5	•	•	•	•	260	4	•	•
•	•	•	•	•	•	•	•		•				•	•	•	•	•					200	5	•	•	•	•	240	4	•	•
•	•	•	•	•	•	•	•		•				•	•	•	•	•					200	5	•	•	•	•	240	4	•	•



Meghnagar Organics Pvt Ltd

MEGHNAGAR ORGANICS PVT. LTD

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CIN-U24100GJ2013PTC077506



MDC

Megha Dye Chem

MEGHA DYE CHEM

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