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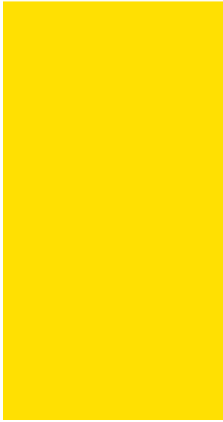




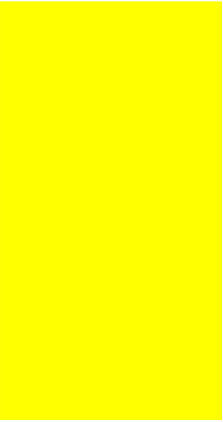

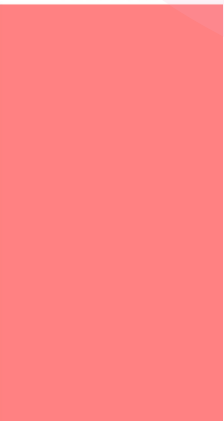


Leading Supplier of Paint & Coating Raw Material

Email: sales@esaar.com | exim@esaar.com

Inorganic Chromes - Supplied by Esaar International

Click the chrome shade to jump to the TDS

- Works well with Adobe PDF Reader

<p>Full Tone</p>  <p>Reduced</p> 	<p>Full Tone</p>  <p>Reduced</p> 	<p>Full Tone</p>  <p>Reduced</p> 
<p>Lemon Chrome</p>	<p>Middle Chrome</p>	<p>Promise Chrome</p>
<p>Full Shade</p>  <p>Reduction</p> 		
<p>Scarlet Chrome</p>	<p>Zinc Chromate</p>	<p>Zinc Phosphate</p>

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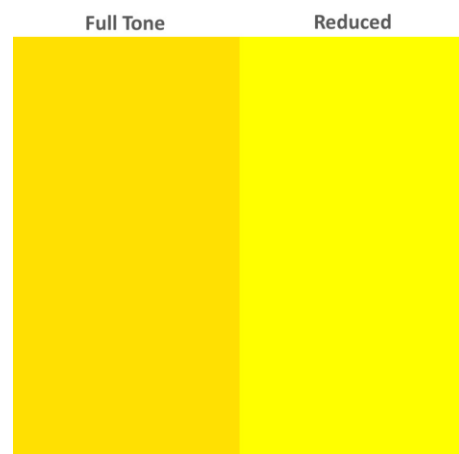
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Inorganic Chromes - Lemon Chrome

Technical Specification:

Physical data and fastness properties		Test Method
Colour Index No.	Pigment Yellow 34 (77 603)	—
Chemical name	Lead (Sulfo) Chromate / Lemon	—
Chemical composition	PbCrO ₄ * PbSO ₄	—
Lead Content	60-62 %	IS 33 1992
Specific gravity	5.3 g/cm ³	IS 33 1992
Oil absorption	22 g/100g (±10%)	IS 33 1992
pH – value of aqueous extract	6 – 8	IS 33 1992
Mositure content	Max. 1 %	IS 33 1992
Water soluble salts	Max. 1 %	IS 33 1992
Residue on sieve (45 ?m)	Max. 0.5 %	IS 33 1992
Soluble Pb – content (0.07 n HCl)	—	ISO 3711
Conductivity	Max. 500 micro-siemens	IS 33 1992
Heat resistance (5 mins)	200° – 220° C	VX/FP/002
Acid resistance (1 – 5)		3 IS 2932
Alkali resistance (1 – 5)		1 IS 2932
Light Fastness (1 – 8)		IS 33 1992
fullshade	5 – 6	
reduced shade (1 : 10)	5 – 6	
Weatherability (1 – 5)	3 – 4	ISO 11341
Resistance to Sulphur dioxide (1 – 5)		2 VX/FP/003



Packging Details

- 25 kg craft paper bags

The information is given for guidance purpose only, without guarantee. Colour shade is indicative only. For further information and Remarks you can always contact us.



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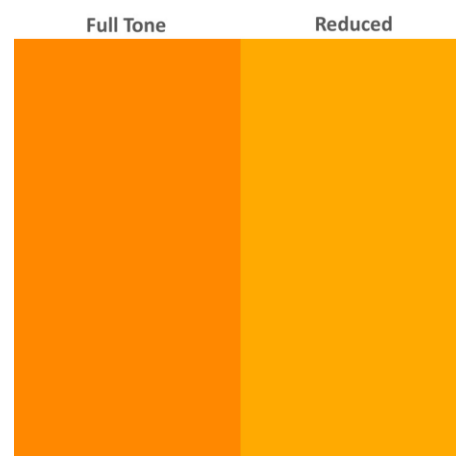
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Inorganic Chromes - Middle Chrome

Technical Specification:

Physical data and fastness properties		Test Method
Colour Index No.	Pigment Yellow 34 (77 603)	—
Chemical name	Lead Chromate / Middle Chrome	—
Chemical composition	PbCrO4 * PbSO4	—
Lead Content	60-62 %	IS 33 1992
Specific gravity	5.4 g/cm ³	IS 33 1992
Oil absorption	21 g/100g (±10%)	IS 33 1992
pH – value of aqueous extract	6 – 8	IS 33 1992
Mositure content	Max. 1 %	IS 33 1992
Water soluble salts	Max. 1 %	IS 33 1992
Residue on sieve (45 ?m)	Max. 0.5 %	IS 33 1992
Soluble Pb – content (0.07 n HCl)	Max. 5 %	ISO 3711
Conductivity	Max. 500 micro-siemens	IS 33 1992
Heat resistance (5 mins)	200° – 220° C	VX/FP/002
Acid resistance (1 – 5)		4 IS 2932
Alkali resistance (1 – 5)		1 IS 2932
Light Fastness (1 – 8)		IS 33 1992
fullshade	6 – 7	
reduced shade (1 : 10)	6 – 7	
Weatherability (1 – 5)	3 – 4	ISO 11341
Resistance to Sulphur dioxide (1 – 5)		2 VX/FP/003



Packging Details

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Inorganic Chromes - Primrose Chrome

Technical Specification:

Product Description		Applications	
Colour Index Name	Pigment Yellow 34	- Alkyd / Stoving	*
Colour Index No.	77603	- Industrial	*
CAS number	1344-37-2	- Coil Coating	*
Chemical name	Lead (Sulfo) Chromate/Primrose Chrome	- Automotive / Refinish / Road	-
		- Powder Coating	*

Physical Properties		
Parameter	Values	Method
Specific gravity	5.3 gm/cm ³	IS 33 1992
Oil absorption	22 g/100g (±5)	IS 33 1992
pH of aqueous extract	06-Aug	IS 33 1992
Moisture content	Max. 1.0 %	IS 33 1992
Residue on sieve (45 ?m	Max. 0.5%	IS 33 1992
Water soluble salts	Max. 1.0%	IS 33 1992
Conductivity	Max. 500 ?S	IS 33 1992

Fastness Properties		
Parameter	Values	Method
Heat Stability (5 min)	200°C - 220°C	VX/FP/002
Acid resistance (1 - 5)	3	IS 2932
Alkali resistance (1 - 5)	1	IS 2932
Light Fastness (1 - 8)		
Full shade	4	IS 33 1992
Weather Fastness (1 - 5)		
Full shade	2	ISO 11341
Resistance to Sulphur dioxide (1 - 5)	2	ISO-3231



Packging Details

- 25 kg craft paper bags



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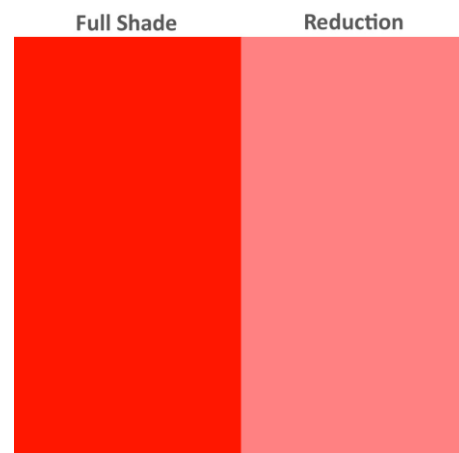
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Inorganic Chromes - Scarlet Chrome Orange

Technical Specification:

Physical data and fastness properties		Test Method
Colour Index No.	Pigment Red 104 (77 605)	—
Chemical name	Lead (Sulfo) Molybdated Chromate / Scarlet	—
Chemical composition	PbCrO ₄ * .PbSO ₄ * .PbMoO ₄	—
Lead Content	60-62 %	—
Specific gravity	6 g/cm ³	IS 33 1992
Oil absorption	20 g/100g (±10%)	IS 33 1992
pH – value of aqueous extract	6 – 8	IS 33 1992
Moisture content	Max. 1 %	IS 33 1992
Water soluble salts	Max. 1 %	IS 33 1992
Residue on sieve (45 μm)	Max. 0.5 %	IS 33 1992
Soluble Pb – content (0.07 n HCl)	Max. 5 %	ISO 3711
Conductivity	Max.500 micro-siemens	IS 33 1992
Heat resistance (5 mins)	200° – 220° C	VX/FP/002
Acid resistance (1 – 5)		2 IS 2932
Alkali resistance (1 – 5)		4 IS 2932
Light Fastness (1 – 8)		IS 33 1992
fullshade	5 – 6	
reduced shade (1 : 10)	5 – 6	
Weatherability (1 – 5)	2 – 3	ISO 11341
Resistance to Sulphur dioxide (1 –		2 VX/FP/003



Packging Details

- 25 kg craft paper bags

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Inorganic Chromes - Zinc Chromate

Description:

- General Term: Zinc Chromate
- Trade Name: Zinc Chrome
- Chemicals Composition: $K^2CrO_4 \cdot 3ZnCrO_4 \cdot Zn(OH)_2$
- Colour Index Pigment No.: PY- 36
- Colour Index No.: 77955



Physical constant	
Appearance	Greenish Yellow Powder
Odor	Odorless
Bulk Density	0.6 – 0.8
Oil Absorption	16 – 21
pH in water	5.5 – 7.0
Avg. Particle size	10 – 15 Micron
Residue on sieve 240 mesh.	0.5 % Max.
Light fastness Full Tone	7
Reduction	7
Weather resistance	7
Acid resistance	Very Poor
Alkali resistance	Poor
Solvent resistance	Excellent
Loss on ignition	N.A
Moisture content	0.5 % Max.
Hardness	Soft
Heat resistance	150° C / 20 min
Recommended in use for	Paints / Primers
Can be used after actual trails	Chalk & Crayons

Packging Details

- 25 kg craft paper bags

Chemical Contents	
ZnO Content in %	36.5 – 40.0
CrO3	43 % (Min)
2O Content in %	10 % (Min)
Water soluble Chlorides	0.1 % (Max)
Water soluble Chromates	0.5 % (Max)
Insoluble in Ammonical Ammonia	0.5 % (Max)

Test Method : IS No.33- 1976

Light Fastness Scale : 1= Very Low

8= Excellent

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Zinc Phosphate

Description:

DESCRIPTION: White Powder

FORMULA: $Zn_3(PO_4)_2 \cdot 2H_2O$

MOLECULAR WEIGHT: 422.08

CAS No. (7779-90-0)

Technical Specification:

Test Parameters	Specification	Test Method
A. Chemical properties		
Zn content (After calcinations for one hour at 600°C)	50% ± 2%	IS 10897:1984
PO4 content (After calcinations for one hour at 600°C)	48% ± 2%	IS 10897:1984
Oil absorption (cm ³ /100 gm)	27 ± 5	IS 10897:1984
PH Value	6.5 ± 1	IS 10897:1984
B. Physical Properties		
Bonded water content (one hour at 600°C)	Min 10%	IS 10897:1984
Sieve Residue (45 Microns)	0.05% max	IS 10897:1984



Packaging Details

- 25 kg HDPE bags/paper bags, other packing available on request.

Storage

- Keep it away from moisture. Store in dry and well-ventilated place.

MAJOR APPLICATIONS:

It is widely being used in manufacturing of Zinc rich anti-corrosive paint primer systems.

Esaar ZP is compatible with variety of solvents & Water based Polymers. It is also used in the formulation of Dental Cement.