

Out of this World



Moonshine™
Effect Pigments



Smart Science to Improve Lives™

CRODA

Moonshine Effect Pigments – for cosmetic creations that are out of this world

Key Benefits:

- Manufactured using proprietary rotary process to ensure uniform flake thickness
- Exceptional colour transmission and colour intensity
- Wide range of colours and effects available, including interference, single colour, multi-colour shifting, and metallic effects
- Astral™ Effect series provides the thinnest borosilicate substrate on the market, providing:
 - Smooth sensory benefits
 - Superior suspension properties

Formulating Tips:

- Ideal pH range for iron oxide-based effect pigments is pH 5-8; systems outside of this range could potentially result in formulation instability
- In order to achieve the best possible optical effects, be careful not to over-process (e.g. micropulverise, homogenise) the effect pigments
- It is not recommended to heat formulations using effect pigments containing carmine above 100°C

Product Name	INCI Name	Product Features										Applications Suitable for Use			
		Particle Size Distribution (µm) (D10-D90)	Nominal Flake Thickness (nm)		Oil Absorption Range (g/100g)*	Borosilicate Content (% w/w)	Iron Oxides Content (% w/w)	Silica Content (% w/w)	Titanium Dioxide Content (% w/w)	Tin Oxide Content (% w/w)	Additional Components	Eye	Face	Lip	Nail
			Uncoated	Coated											
Astral Effect Series - interference effect pigments with a unique 350nm borosilicate substrate thickness															
Blue Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891	30 - 100	350	500-1200	50 - 90	53-64			36-46	0-1		✓	✓	✓	✓
Gold Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					55-66			34-44		✓	✓	✓	✓	
Green Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					48-59			41-51		✓	✓	✓	✓	
Red Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					60-71			29-39		✓	✓	✓	✓	
Silver White Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					63-74			26-36		✓	✓	✓	✓	
Violet Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					50-61			39-49		✓	✓	✓	✓	
Blue Super Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					54-65			35-45		✓	✓	✓	✓	
Gold Super Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					56-67			33-43		✓	✓	✓	✓	
Green Super Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					49-60			40-50		✓	✓	✓	✓	
Red Super Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					61-72			28-38		✓	✓	✓	✓	
Silver White Super Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891	64-75			25-35	✓	✓	✓	✓						
Violet Super Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891	51-62			38-48	✓	✓	✓	✓						
Effect Series - metal oxide coated interference and single colour metallic borosilicate effect pigments															
Blue Sparkle	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891	50 - 250	1200	1210-2210	130 - 160	70-81			19-29	0-1		✓	✓	✓	✓
Gold Sparkle	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					77-90			10-22	0-1	✓	✓	✓	✓	
Green Sparkle	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					69-80			20-30	0-1	✓	✓	✓	✓	
Red Sparkle	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					75-86			14-24	0-1	✓	✓	✓	✓	
Silver White Sparkle	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					86-97			3-13	0-2	✓	✓	✓	✓	
Violet Sparkle	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					72-83			17-27	0-1	✓	✓	✓	✓	
Blue Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					71-82			18-28	0-1	✓	✓	✓	✓	
Gold Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					76-88			12-23	0-1	✓	✓	✓	✓	
Green Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					69-81			19-30	0-1	✓	✓	✓	✓	
Red Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					74-85			5-25	0-1	✓	✓	✓	✓	
Silver White Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891	85-95			5-20	< 2	✓	✓	✓	✓					
Violet Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891	72-83			17-27	0-1	✓	✓	✓	✓					
Bronze Ultra Shimmer	Calcium Sodium Borosilicate (and) Iron Oxides CI 77491	75-87	13-25				✓	✓	✓	✓					
Copper Ultra Shimmer	Calcium Sodium Borosilicate (and) Iron Oxides CI 77491	70-80	20-30				✓	✓	✓	✓					
Metallic Gold Ultra Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891 (and) Iron Oxides CI 77491	60-80	5-10			15-30	0-1	✓	✓	✓	✓				
Russet Ultra Shimmer	Calcium Sodium Borosilicate (and) Iron Oxides CI 77491	65-80	20-35				✓	✓	✓	✓					
Ultra Effect Series - single colour borosilicate effect pigments															
Brazen Blue Sparkle	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891 (and) Ferric Ferrocyanide CI 77510	50 - 250	1200	1210 - 2210	150 - 180	68-80			18-28	0-1	Ferric Ferrocyanide CI 77510 [21 CFR 73.2299]: 2-3 % w/w	✓	✓	✓	✓
Golden Yellow Sparkle**	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891 (and) FD&C Yellow #5 Aluminum Lake CI 19140					76-90			10-22		FD&C Yellow No.5 CI 19140 [21 CFR 74.2705]: 0.5-1 % w/w	✓	✓	✓	✓
Grey Sparkle	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					84-96			4-15			✓	✓	✓	✓
Hot Pink Sparkle**	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891 (and) Carmine CI 75470					74-86			14-24		Carmine CI 75470 [21 CFR 73.2087]: 0.5-1 % w/w	✓	✓	✓	✓
Brazen Blue Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891 (and) Ferric Ferrocyanide CI 77510					69-80			17-26		Ferric Ferrocyanide CI 77510 [21 CFR 73.2299]: 3-4 % w/w	✓	✓	✓	✓
Golden Yellow Shimmer**	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891 (and) FD&C Yellow #5 Aluminum Lake CI 19140					75-87			12-22		FD&C Yellow No.5 CI 19140 [21 CFR 74.2705]: 1-2 % w/w	✓	✓	✓	✓
Grey Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					83-93			7-16			✓	✓	✓	✓
Hot Pink Shimmer**	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891 (and) Carmine CI 75470					73-84			15-24		Carmine CI 75470 [21 CFR 73.2087]: 1-2 % w/w	✓	✓	✓	✓
Pebble Grey Ultra Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891					68-77			21-30			✓	✓	✓	✓
Amethyst Purple Ultra Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891 (and) Ferric Ferrocyanide CI 77510					71-83			15-24		0-1 Ferric Ferrocyanide CI 77510 [21 CFR 73.2299]: 2-4 % w/w	✓	✓	✓	✓
Emerald Green Ultra Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891 (and) Iron Oxide CI 77491 (and) Ferric Ferrocyanide CI 77510	58-71	02-05			26-31	0-2 Ferric Ferrocyanide CI 77510 [21 CFR 73.2299]: 1-3 % w/w	✓	✓	✓	✓				
Deep Turquoise Ultra Shimmer	Calcium Sodium Borosilicate (and) Titanium Dioxide CI 77891 (and) Ferric Ferrocyanide CI 77510	65-77				21-30	0-1 Ferric Ferrocyanide CI 77510 [21 CFR 73.2299]: 2-4 % w/w	✓	✓	✓	✓				
Colour Travel Series - multi-colour shifting borosilicate effect pigments															
Blue-Green-Gold Ultra Sparkle	Calcium Sodium Borosilicate (and) Silica (and) Titanium Dioxide CI 77891	50 - 200	1200	1210-2210	130 - 160	55-95		5-25	2-17	0-1		✓	✓	✓	✓
Gold-Red-Violet Ultra Sparkle	Calcium Sodium Borosilicate (and) Silica (and) Titanium Dioxide CI 77891					55-95		5-25	2-17		✓	✓	✓	✓	
Red-Violet-Blue Ultra Sparkle	Calcium Sodium Borosilicate (and) Silica (and) Titanium Dioxide CI 77891					55-95		5-25	2-17		✓	✓	✓	✓	
Violet-Blue-Green Ultra Sparkle	Calcium Sodium Borosilicate (and) Silica (and) Titanium Dioxide CI 77891					55-95		5-25	2-17		✓	✓	✓	✓	
Blue-Green-Gold Sparkle	Calcium Sodium Borosilicate (and) Silica (and) Titanium Dioxide CI 77891					45-90		10-30	4-20		✓	✓	✓	✓	
Gold-Red-Violet Sparkle	Calcium Sodium Borosilicate (and) Silica (and) Titanium Dioxide CI 77891					45-90		10-30	4-20		✓	✓	✓	✓	
Red-Violet-Blue Sparkle	Calcium Sodium Borosilicate (and) Silica (and) Titanium Dioxide CI 77891					45-90		10-30	4-20		✓	✓	✓	✓	
Violet-Blue-Green Sparkle	Calcium Sodium Borosilicate (and) Silica (and) Titanium Dioxide CI 77891					45-90		10-30	4-20		✓	✓	✓	✓	
Blue-Green-Gold Shimmer	Calcium Sodium Borosilicate (and) Silica (and) Titanium Dioxide CI 77891					40-85		10-30	5-25		✓	✓	✓	✓	
Gold-Red-Violet Shimmer	Calcium Sodium Borosilicate (and) Silica (and) Titanium Dioxide CI 77891					40-85		10-30	5-25		✓	✓	✓	✓	
Red-Violet-Blue Shimmer	Calcium Sodium Borosilicate (and) Silica (and) Titanium Dioxide CI 77891	40-85		10-30	5-25	✓	✓	✓	✓						
Violet-Blue-Green Shimmer	Calcium Sodium Borosilicate (and) Silica (and) Titanium Dioxide CI 77891	40-85		10-30	5-20	✓	✓	✓	✓						
Ultra Colour Travel Series - multi-colour shifting borosilicate effect pigments with a single colour bulk tone															
Violet-Blue-Green Ultra Sparkle Blue	Calcium Sodium Borosilicate (and) Silica (and) Titanium Dioxide CI 77891 (and) Ferric Ferrocyanide CI 77510	40 - 200	1200	1210 - 2210	60 - 80	54 - 92		5 - 20	2 - 20	0 - 5	Ferric Ferrocyanide CI 77510 [21 CFR 73.2299]: 1-2% w/w	✓	✓	✓	✓
Blue-Green-Gold Ultra Sparkle Red	Calcium Sodium Borosilicate (and) Silica (and) Titanium Dioxide CI 77891 (and) Carmine CI 75470					54 - 92		5 - 20	2 - 20		Carmine CI 75470 [21 CFR 73.2087]: 1-2% w/w	✓	✓	✓	✓
Red-Violet-Blue Ultra Sparkle Red	Calcium Sodium Borosilicate (and) Silica (and) Titanium Dioxide CI 77891 (and) Carmine CI 75470					54 - 92		5 - 20	2 - 20		Carmine CI 75470 [21 CFR 73.2087]: 1-2% w/w	✓	✓	✓	✓
Gold-Red-Violet Ultra Sparkle Pink**	Calcium Sodium Borosilicate (and) Silica (and) Titanium Dioxide CI 77891 (and) D&C Red #27 Aluminum Lake CI 45410					54 - 92		5 - 20	2 - 20		D&C Red #27 Aluminum Lake CI 45410 [21 CFR 74.2327]: 1-2% w/w	✓	✓	✓	✓

*The test method used for Oil Absorption is ASTM D281-12 **Please check with your local sales representative regarding regional usage recommendations and/or regional regulatory restrictions

Regional Croda Offices

Visit us at www.crodapersonalcare.com

North America

Tel: +1 732 417 0800 Fax : +1 732 417 0804

Email: marketing-usa@croda.com

Europe, Middle East & Africa

Tel: +44 (0) 1405 860551 Fax: +44 (0) 1405 861767

Email: pc-europe@croda.com

Latin America

Tel: +55 (0)19 37653500 Fax: +55 (0)19 37653536

Email: marketinglatam@croda.com

Asia Pacific

Tel: +65 65519600 Fax: +65 65519550

Email: pc-asia@croda.com

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