

Product Definition for DecoFlake™

Description

DecoFlake is produced from specially selected mica. This material is chemically and color stable to temperature in excess of 800°C. The opacity of the flakes is sufficiently high to retain the reflectance in both aqueous and polymer based systems. Deco-Flake is available in 4 sizes and in 4 different colors, Bronze, Champagne, Gold, and Silver.

DecoFlake special-effect colorants are naturally colored so the color is present throughout the flake, which ensures consistency, even in the most aggressive production processes. They are also resistant to chemicals, heat and natural elements. In addition, Deco-Flake is FDA and food contact compliant, which gives them almost limitless use in a wide variety of applications, including:

Epoxy/Resins	Solid Surfaces	Cements
Thermosets	Paints	Coatings

Typical Properties (Non Specified)

Chemical Analysis -

		Percentages by Weight			
		<u>Bronze</u>	<u>Champagne</u>	<u>Gold</u>	<u>Silver</u>
Silicon	as SiO ₂	42	45 - 50	48 - 50	51 - 53
Aluminium	as Al ₂ O ₃	11	30 - 35	32 - 35	32 - 34
Potassium	as K ₂ O	10	9 - 11	10 - 12	10 - 11
Magnesium	as MgO	24	2 - 5	5 - 6	2
Iron	as Fe ₂ O ₃	5	<1	<1	1
Sodium	as Na ₂ O	0.1	1 - 2	<1	<1
Titanium	as TiO ₂	0.5	<1	<0.5	<0.5

Loss on ignition at 1000 °C	0.5 - 1.5
Moisture	0.2% max
Loose Bulk Density (lbs/ft ³)	15 - 20

Typical Properties (Specified)

Particle Size by Sieving

U.S. Mesh	18	30	40	50	60	80	100	120	140	200
Microns	1000	590	450	297	250	177	149	125	105	74
Bronze 325 Grade		98-100			30-60			0-25		
Bronze 650 Grade	90-100		20-50		0-20					
Champagne 325 Grade			0 max	35-75						
Gold 125 Grade							90-100			0-20
Gold 175 Grade					98-100		30-55		0-10	
Gold 325 Grade			98-100		10-40		0-10			
Gold 650 Grade	98-100		10-40		0-10					
U.S. Mesh	18	30	40	50	60	80	100	120	140	200
Microns	1000	590	450	297	250	177	149	125	105	74
Silver 125 Grade							90-100			0-20
Silver 175 Grade						40-55	15-45		0-5	

Silver 325 Grade		98-100		20-45		0-3			
Silver 650 Grade	98-100		10-40		0-10				

For more information or samples, please call 1-866-64-ELPIS or visit our website at:
www.elpistechnologies.com

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