



TITAN-TR PEARL PIGMENT

Non-Bleeding Organic-FREE Glass Base Colored Pearl

ARGAN Co.

Colorant-less **Color**-ation

The Deep Color Expression

created by **Optical Effect**
in the surface of **Pearl Pigments**
made of only **Inorganic components**

Deep **Color** ation by only **White & Black pigments**

The Color effect By only Inorganic components In Pearl Pigments

Main Ingredients

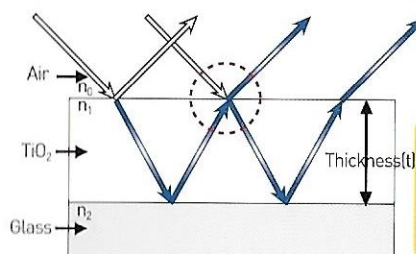
- Only Glass for base material
- with Titanium dioxide(TiO_2 , Ti/TiO_2)

- Non-Bleeding** for any solvent or salts in Cosmetic fields
- Very stable** against Heat, Light, Acid, Alkali, pH of solution
- No harmful** to man's skin

Exclude any Organic materials
Exclude any Cyanide components
Exclude any Chromic components

Applicable to
Any Cosmetic Formulation
with good stability

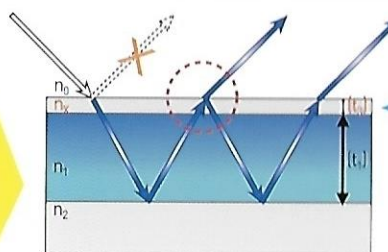
Blue Interference color (White Appearance)



Thickness
 $t=t_1$

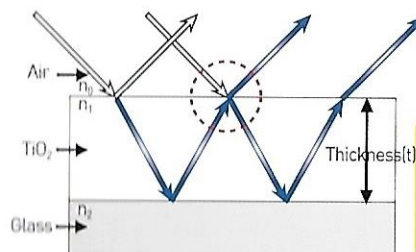
The Color effect created by
Internal Light Reflection &
External Light Absorption by
thin layer of Black Titanium
Oxide Pigments

Blue Appearance color



Black Titanium dioxide
(INCI name: Ti/TiO_2)

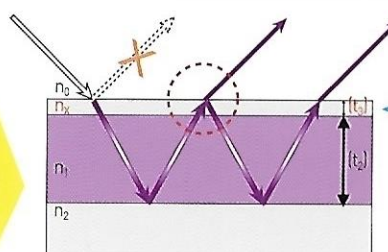
Blue Interference color (White Appearance)



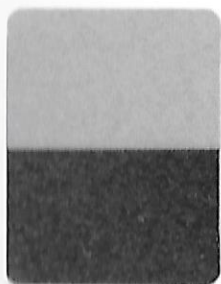
Thickness
 $t=t_2+t_3$

The Color effect created by
Internal Light Reflection &
External Light Absorption by
thin layer of Titanium Black
Pigments

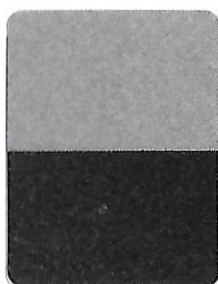
Violet Appearance color



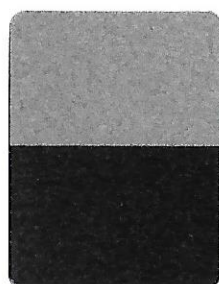
Fields	Type	Formulation
Skin care	Solubilization type	Skin Lotion, Pack, Cleansing products...
	Emulsion type	Lotion, Cream, Essence, Sun care products...
Make-up	Powder type	Two way cake, Eye shadow, Blusher, Face powder...
	Emulsion type	Base make-up, Foundation, Mascara, Eyeliner...
	Molding type	Lip stick, Skin cover, Concealer, Eye & Lip pencil
	Baking type	Eye shadow...
	Gel type	Lip gloss, Manicure, Nail enamel...
Body care	Soap, Body Cleanser, Body lotion, Shower cologne, Body powder, Body gel...	
Hair care	Shampoo, Hair Rinse, Hair gel, Mousse, Hair spray...	



Titan-TR Sparkle Soft Silver
ARG TTS 101 20~100μm



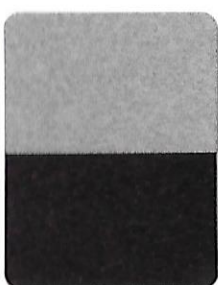
Titan-TR Sparkle Smoky Silver
ARG TTS 100 20~100μm



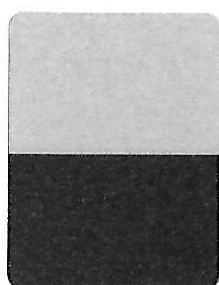
Titan-TR Sparkle Deep Silver
ARG TTS 102 20~100μm



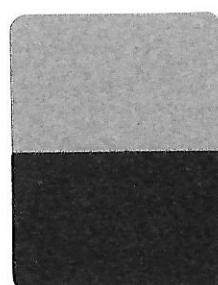
Titan-TR Sparkle Soft Red
ARG TTS 221 20~100μm



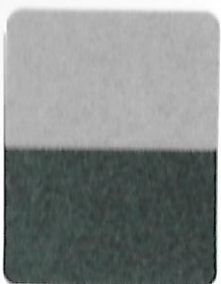
Titan-TR Sparkle Smoky Red
ARG TTS 220 20~100μm



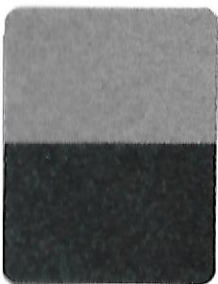
Titan-TR Sparkle Soft Gold
ARG TTS 411 20~100μm



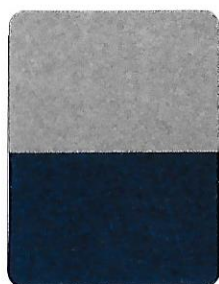
Titan-TR Sparkle Smoky Gold
ARG TTS 410 20~100μm



Titan-TR Sparkle Soft Green
ARG TTS 551 20~100μm



Titan-TR Sparkle Smoky Green
ARG TTS 550 20~100μm



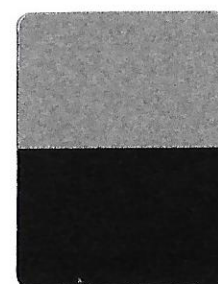
Titan-TR Sparkle Soft Blue
ARG TTS 641 20~100μm



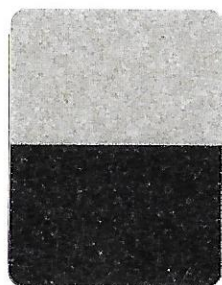
Titan-TR Sparkle Smoky Blue
ARG TTS 640 20~100μm



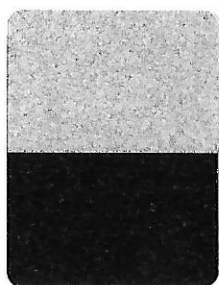
Titan-TR Sparkle Soft Violet
ARG TTS 731 20~100μm



Titan-TR Sparkle Smoky Violet
ARG TTS 730 20~100μm



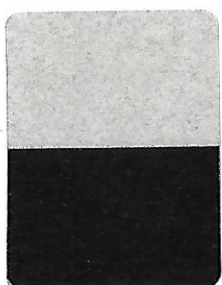
Titan-TR Glitter Soft Silver
ARG TTG 101 50~250 μ m



Titan-TR Glitter Smoky Silver
ARG TTG 100 50~250 μ m



Titan-TR Glitter Deep Silver
ARG TTG 102 50~250 μ m



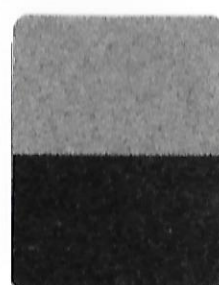
Titan-TR Glitter Soft Red
ARG TTG 221 50~250 μ m



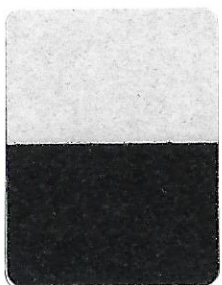
Titan-TR Glitter Smoky Red
ARG TTG 220 50~250 μ m



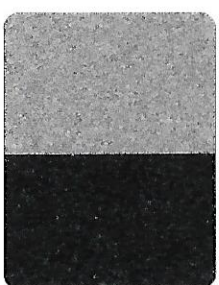
Titan-TR Glitter Soft Gold
ARG TTG 411 50~250 μ m



Titan-TR Glitter Smoky Olive
ARG TTG 410 50~250 μ m



Titan-TR Glitter Soft Green
ARG TTG 551 50~250 μ m



Titan-TR Glitter Smoky Green
ARG TTG 550 50~250 μ m



Titan-TR Glitter Soft Blue
ARG TTG 641 50~250 μ m



Titan-TR Glitter Smoky Blue
ARG TTG 640 50~250 μ m



Titan-TR Glitter Soft Violet
ARG TTG 731 50~250 μ m



Titan-TR Glitter Smoky Violet
ARG TTG 730 50~250 μ m

No	Product Name	Code	Size(μm)	Composition (%)			
				Glass	SnO ₂	TiO ₂	Ti/TiO ₂
1	Titan-TR Sparkle Soft Silver	ARG TTS 101	20-100	○	○	○	○
2	Titan-TR Sparkle Smoky Silver	ARG TTS 100	20-100	○	○	○	○
3	Titan-TR Sparkle Deep Silver	ARG TTS 102	20-100	○	○	○	○
4	Titan-TR Sparkle Soft Red	ARG TTS 221	20-100	○	○	○	○
5	Titan-TR Sparkle Smoky Red	ARG TTS 220	20-100	○	○	○	○
6	Titan-TR Sparkle Soft Gold	ARG TTS 411	20-100	○	○	○	○
7	Titan-TR Sparkle Smoky Gold	ARG TTS 410	20-100	○	○	○	○
8	Titan-TR Sparkle Soft Green	ARG TTS 551	20-100	○	○	○	○
9	Titan-TR Sparkle Smoky Green	ARG TTS 550	20-100	○	○	○	○
10	Titan-TR Sparkle Soft Blue	ARG TTS 641	20-100	○	○	○	○
11	Titan-TR Sparkle Smoky Blue	ARG TTS 640	20-100	○	○	○	○
12	Titan-TR Sparkle Soft Violet	ARG TTS 731	20-100	○	○	○	○
13	Titan-TR Sparkle Smoky Violet	ARG TTS 730	20-100	○	○	○	○

No	Product Name	Code	Size(μm)	Composition (%)			
				Glass	SnO ₂	TiO ₂	Ti/TiO ₂
1	Titan-TR Glitter Soft Silver	ARG TTG 101	50-250	○	○	○	○
2	Titan-TR Glitter Smoky Silver	ARG TTG 100	50-250	○	○	○	○
3	Titan-TR Glitter Deep Silver	ARG TTG 102	50-250	○	○	○	○
4	Titan-TR Glitter Soft Red	ARG TTG 221	50-250	○	○	○	○
5	Titan-TR Glitter Smoky Red	ARG TTG 220	50-250	○	○	○	○
6	Titan-TR Glitter Soft Gold	ARG TTG 411	50-250	○	○	○	○
7	Titan-TR Glitter Smoky Olive	ARG TTG 410	50-250	○	○	○	○
8	Titan-TR Glitter Soft Green	ARG TTG 551	50-250	○	○	○	○
9	Titan-TR Glitter Smoky Green	ARG TTG 550	50-250	○	○	○	○
10	Titan-TR Glitter Soft Blue	ARG TTG 641	50-250	○	○	○	○
11	Titan-TR Glitter Smoky Blue	ARG TTG 640	50-250	○	○	○	○
12	Titan-TR Glitter Soft Violet	ARG TTG 731	50-250	○	○	○	○
13	Titan-TR Glitter Smoky Violet	ARG TTG 730	50-250	○	○	○	○

★ Ti/TiO₂ : Titanium/Titanium dioxide (INCI Name)



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