

Title

Sensory evaluation result of YMC Mica and Talc

Category

Cosmetics

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## &lt;Abstract&gt;

YMC mica and talc powder are mixed into the products of cosmetics as extender pigments for foundation. These powders should be suitable for cosmetic formulation development concept. We control the texture and lustrous not only by the type of ore but also by our production conditions (pretreatment/ grinding/ classification, etc.), so we can provide various grade of mica and talc powder.

## &lt;Implementations&gt;

Our three inspectors checked the texture of several powder's adhesion, smoothness, lustrous by touch, and scored in five steps of sensory evaluation. There was the difference of maximum/ minimum score depending on inspector, so we adjusted the maximum score was 5 and the minimum was 1 for each inspector and item, then the average value of three inspector's score was taken as the result.

## &lt;Results&gt;

Table 1. Powder property and sensory evaluation result of Mica and Talc

Type	Product name	Powder property				Sensory evaluation result (*)		
		Average Particle size	Aspect ratio (ref,value)	Glossiness	Coefficient of friction	Adhesive -ness	Smooth -ness	Lustrous texture
		μm	-	GU	-	-	-	-
Mica	Y-2300X	19	60	12	0.58	3	2	2
	SA-310	26	70	14	0.55	2	3	3
	FA-450	28	-	22	0.58	3	3	5
	TM-20	18	150	18	0.78	5	1	4
Talc	EX-15	15	20	5	0.37	1	5	1
	CT-35	17	20	5	0.50	1	4	1

(\*)Score of sensory evaluation

Adhesiveness : 5(high) ↔ 1(low)

Smoothness : 5(high) ↔ 1(less)

Lustrous : 5(high) ↔ 1(low)

## &lt;Conclusions&gt;

- Mica and talc are different types minerals. Mica has high adhesiveness, low smoothness, and high lustrous texture.
- Mica(TM-20) has higher adhesiveness than other Mica products.
  - TM-20 has high adhesiveness and soft texture because it flakes off the particle shape thinner when the pretreatment for raw material.
- Mica (FA-450) has high lustrous texture than other Mica products.
  - FA-450 has high lustrous texture by the process of soft grinding and particle size control. But, Y-2300X has low lustrous texture by the process of grinding conditions and particle size control.