



## Technical data sheet

# Talc 3355 Dense

### In compliance with USP – EP – JP

#### Mineralogy – XRD

Talc 99 %

#### Chromatic coordinates

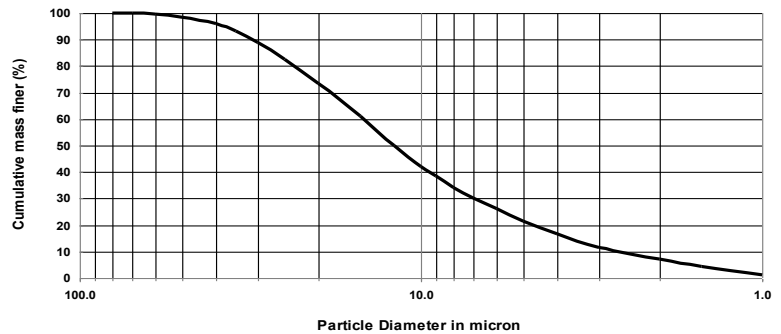
L* (CIE)	I.M. 93002	95.5
a* (CIE)	I.M. 93002	-0.3
b* (CIE)	I.M. 93002	0.7
Y	I.M. 93002	89.0

#### Particle Size Distribution

Sedimentation analysis - Sedigraph 5120

Median diameter D<sub>50</sub> 12.0 μm

Thru 200 mesh (74 μm) sieve 95 %



#### Physical Properties

Density	DIN 53193	2.8 g/cm <sup>3</sup>
Loose bulk density	I.M. 98028	0.56 g/cm <sup>3</sup> / 35 lb/ft <sup>3</sup>
Tapped bulk density	I.M. 93003	1.25 g/cm <sup>3</sup> / 78 lb/ft <sup>3</sup>
Hardness	Mohs scale	1
Specific Surface (B.E.T.)	DIN 66131/2	2.5 m <sup>2</sup> /g
Moisture content at 105 °C	I.M. 93005	0.2 %

#### Chemical analyses - A.A.S.

SiO <sub>2</sub>	61.5 %
MgO	31.0 %
CaO	0.4 %
Fe <sub>2</sub> O <sub>3</sub>	0.6 %
Al <sub>2</sub> O <sub>3</sub>	0.5 %

Loss on Ignition at 1075°C I.M. 93009 6.0 %

#### Microbiological analysis

Total aerobic plate count including yeast and mold <100 per gram. Gram negative plate count not detected.

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## TALC

for cosmetics

Over the years, **IMI Fabi** has developed a dedicated range of products specifically designed for **cosmetic applications**

Talc is a versatile ingredient used in cosmetic industry.

This functional mineral is suitable for many final products such as pressed powders, concealers, antiperspirants, soaps and many others.

Using its own mineral resources and the state-of-the-art in sorting, size reduction and decontamination technologies, IMI Fabi can offer an extreme purity and high bright range of talc products designed for cosmetic industry.

The controlled purity, the inert behavior, the high brightness together with the extremely developed lamellarity make IMI Fabi talc a unique functional mineral for cosmetic applications.

*Talc is a natural ingredient.*



## IMI Fabi Talc grades for cosmetics

For many cosmetic applications a very pure and highly delaminated talc is requested to fulfil with demanding performances for make-up products such as concealers, face powders, powder foundations and eye shadows. The hydrophobic and lipophilic characters of platy talc make this ingredient a functional component in cosmetic formulations.

Talc **Pharma-S** grants high mineral purity standards together with a decontamination process that makes this product suitable for most stringent specifications. Talc **3355 dense** is also used for general cosmetic applications.

Talc **1656** and **Premium 20** are the perfect products for make-up applications, where talc works as pigment extender and matting agent, combining high mineral purity with precise particle size distribution. Both talcs **1656** and **Premium 20** are decontaminated and in compliance with EP-USP-JP standards. For excellent performances, talc **CosmeticPRO** offers both extreme purity and high brightness combined with engineered platyness for outstanding results.

Talc is an excellent filler in toilet soap, where it imparts skin softness feeling together with cost formula optimization. Talcs **HTP4** and **PR2** are recommended for this application. Thanks to its lipophilicity, it is also a perfect ingredient for dry shampoos.

To improve the efficiency of sunscreens a very high micronized platy talc such as **LowMicron5** is the solution for complex creams.

Finally, talc is used as active ingredient in some antiperspirants formulations for its ability to absorb odor and adhere to skin, having therefore a distinctive role for such function.



IMI Fabi talc grade	Example of application	De-contaminated
<b>Premium 20 1656</b>	Make up	Y
<b>Pharma-S 3355 dense CosmeticPRO</b>	General cosmetic applications	Y Y Y
<b>PR2 HTP4</b>	Toilet soap	
<b>LowMicron5</b>	Extender for sunscreens	Y

### Customer support

*Our team is keen to assist cosmetic manufacturers in selecting the most suitable talc grades relevant for their final applications.*

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