

ENHANCE SENSORIAL PERFORMANCE

# FARMAL™ multi-functional bio-polymer



## Enhance look and feel with **simple label appeal**

Ingredion's FARMAL™ range of starches are non-ionic, bio-based polymers used to enhance aesthetic and sensorial attributes with simple label appeal. Effective oil absorbers, FARMAL™ starches can help reduce undesirable greasiness and oiliness in heavy cream and lotion formulations, as well as make-up and body powders. The bio-based FARMAL™ range of bio-polymers, provide higher oil and moisture absorbency in comparison to other powder-based products such as talc.

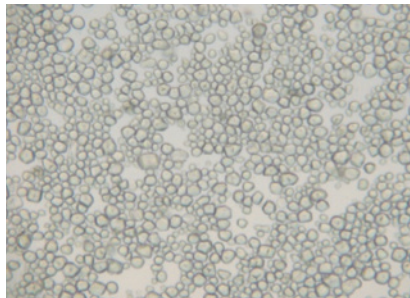


Ingredion™

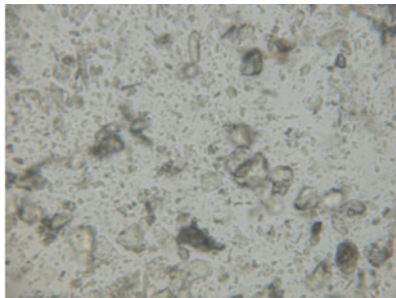
# Versatile skin care performance

Our FARMAL™ bio-polymer range includes two very versatile ingredients which can be used for a variety of personal care applications. FARMAL™ CS 3757 corn starch and FARMAL™ 21T tapioca starch can act as bulking agents, moisture absorbers and active carriers.

## FARMAL™ CS 3757

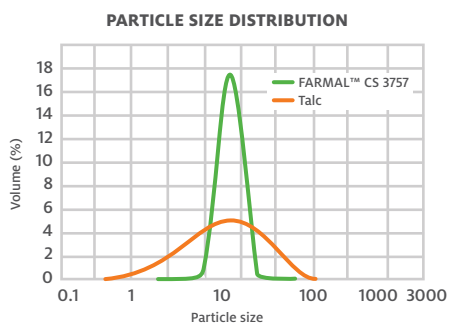


## TALC

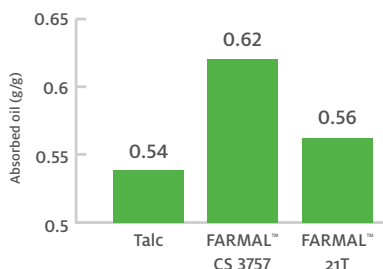


## TALC ALTERNATIVE IN POWDER APPLICATIONS

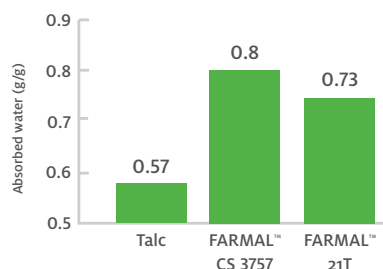
FARMAL™ CS 3757 and FARMAL™ 21T bio-polymer both provide an alternative to talc. FARMAL™ CS 3757 and FARMAL™ 21T bio-polymer offer effective oil and moisture absorbence thanks to their uniform particle size.



### OIL ABSORBENCY



### MOISTURE ABSORBENCY



## FORMULATOR BENEFITS

- Bio-based polymer
- Gentle on skin
- Mitigate oiliness in creams and lotions
- Non-irritating carrier and vehicle for actives
- Effective oil absorbent
- Mattifying agent
- Direct replacement for talc
- Versatile sensory modifier
- Ease of formulation

## GET STARTED TODAY

With Ingredion you can talk everyone's language.

**Ingredion Germany GmbH | +49 40 239 150**

**Ingredion UK Ltd | +44 (0) 161 435 3200**

**Ingredion.com/emea**



## FORMULATING SUGGESTIONS

Recommended for use in raw, granular form. Usage levels can be adjusted based on customer formulation.

- >0.5% in creams and lotions to mitigate oiliness
- >4.0% in creams and lotions as viscosity builder
- >15% in loose or compact powder applications

## POWDER APPLICATIONS

- Baby powder
- Body powder
- Foot powder
- Loose and compact makeup
- Colour cosmetics
- Dry shampoo

## SKIN CARE APPLICATIONS

- Creams and lotions
- Facial cleansing products
- Bath products
- Deodorants



**Ingredion™**

Developing ideas.  
Delivering solutions.™

**Ingredion Germany GmbH**  
Gruener Deich 110,  
20097 Hamburg  
Germany