

## Technical Data Sheet

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Walnut Shell powder can be used as exfoliant and at the same time for visual effects in facial cleansers, body scrubs, foot scrubs, gels, emulsions, soaps etc. The shell powders are hard, remain suspended in formulations and work as a skin abrasive when rubbed on the skin. They have a long shelf life without any added preservatives.

### PRODUCT INFORMATION:-

Product Name: WALNUT SHELL POWDER		
	Ingredients	CAS NO
Ingredient Declaration :	• Walnut Shell powder	84012-43-1
Country of origin : India		

### ANALYTICAL INFORMATION:-

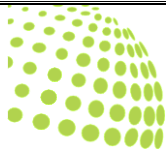
Test	Specification
Appearance	Free- Flowing light brown colored powder
Particle size	NLT 90% pellets should pass through 35# & NMT 10 % pellets should pass through 70 #
Loss on drying	NLT 4.0% w/w.
Bulk Density	NLT 0.2 gm/cc.
pH	Between 5.0 - 8.0.

### GENERAL INFORMATION:-

1.	Properties	Walnut Shell powder are hard with exfoliating properties. They do not become soft when incorporated in aqueous or oil based cosmetic vehicles. The powder retain their shape and scrub away the surface layer of dead skin acting as a body scrub and cleanser. Walnut Shell powder are stable over a wide range of pH 5.0 to 8.0, are safe and non-toxic.
2.	Application	These Walnut Shell powder can be used as an exfoliant and also to provide visual effects in facial cleansers, scrubs, gels, emulsions, soaps etc.
3.	Composition	Walnut shell exfoliator contain Walnut Shell powder.

### Umang Pharmatech Pvt. Ltd.

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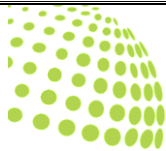
4.	<b>Absences of Impurities</b>	Impurities like glycols, dioxins, glutens, formaldehyde, residual solvents are absent.
5.	<b>GMO / BSE</b>	The ingredients used for manufacturing these spheres are not based on animal derived source and are not of genetically modified origin.
6.	<b>CMR</b>	The products are free from any of the special risk substances classified as carcinogenic, mutagenic or toxic for reproduction.
7.	<b>Manufacturing and Quality Control</b>	The entire manufacturing operations are carried out using equipment's in hygienic clean facilities to ensure high quality of final product. The quality of the products is always assured by the specifically laid down quality control practices. The well-equipped analytical laboratory ensures the use of the prescribed quality material, and follows processes in place for final analysis of the product.

### HANDLING & PROCESSING INFORMATION:-

1.	<b>Processing of Final Product</b>	Walnut Shell powder are insoluble in water and not hygroscopic. When added to formulations they will remain hard and function as an abrasive. Avoid any ingredients that could act as solvents or cause other incompatibilities with ingredients of the exfoliator. There is a risk of sedimentation in all aqueous systems, surfactant products and liquid emulsions. Therefore use of mixtures containing synthetic and natural polymers is recommended as they give better results than one thickening agent alone or ensuring that the final formulation has sufficient viscosity and internal gel structure.
2.	<b>Handling</b>	Any mechanical influences on the Walnut Shell powder should be avoided during manufacturing and filling processes. High shearing like homogenization, which is a common process for emulsifying cosmetic formulations will destroy the spheres. The beads should be only be added at the very end of the manufacturing process with slow and gentle stirring.
3.	<b>Stability</b>	The individual stability data for Walnut Shell powder are available upon request.
4.	<b>Addition procedure</b>	Addition will be at room temperature (25°C) at the end of the process with gentle, low speed stirring until homogenous distribution is obtained.
5.	<b>Use Level</b>	Depending on particle size and performance desired, powders are typically used between 0.5- 2% in the final product.

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6.	<b>Storage</b>	Store in a tightly closed container in dry place at temperature of 25°C.
7.	<b>Safety</b>	The product is safe and non-toxic for its intended use. Avoid inhalation of dust of product or contact with eyes, mouth or nose by taking suitable preventive measures. Also refer to Material Safety Data Sheet.
8.	<b>Shelf life</b>	3 years from the date of manufacturing.

### **DISCLAIMER:-**

Sample formulations are provided for your evaluation, but Umang Pharmatech Pvt. Ltd. does not warrant their merchantability, fitness for use, stability, performance or freedom from patent infringement. They have not been subjected to extensive testing. It is your responsibility to thoroughly test any formulations before use. All warranties, indemnities or liabilities implied or expressed by law are hereby excluded by Umang Pharmatech Pvt. Ltd. to the fullest extent permitted by law.

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