



Experimental ProSoyBond Adhesive Applications

August 2018

General Description

ProSoyBond is a soy based composite chemically engineered to utilize the amine, hydroxyl, sulfhydryl, and tyrosine groups for cross-linking with formaldehyde and phenol under basic conditions. The carbohydrate fraction has been modified to aid in the transport of the resin for maximum effectiveness at the bonding interface.

ProSoy Characteristics

- Liquid carrier
- Absorbency (4 -5 times own weight)
- Protein content (25 - 35% DBP)

A nutritional benefit

- Controlled particle size
- Pelletizing aid
- Bio-friendly
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Handling Characteristics

ProSoyBond is environmentally friendly, non-hazardous and renewable. PSB can be readily wetted in with water at ambient temperature and good agitation up to 34% total solids with no lumping. Arro Protein Solutions can suggest other addition methods to suit customer requirements. It can be considered a nuisance dust and dust masks should be worn when handling.

Typical Properties

Appearance	Dry Powder
Color	Light Tan
Moisture	5% - 8%
Crude Protein	50% - 55%
Reactivity (TNBS)	>105
Solubility	>80%
Bulk Density	35 – 40 lb/ft ³
Shelf Life	One Year Minimum

Particle Size Specification

On U.S. #60 Mesh	1.0% Max
On U.S. #100 Mesh	7.0% Max
On U.S. #140 Mesh	12.0% Max
On U.S. #200 Mesh	20.0% Max
Thru U.S. #200 Mesh	60.0% Min

Availability

PSB products are in development but will be readily available in:

- Pneumatic Truck
- Railcar
- 1500-2000 lb SuperSacks

Customer Service

Arro Protein Solutions is dedicated to the effective application of PSB products for its customers. We are a science based company meeting industry needs with functional and environmentally friendly soy based products.

Product Safety

Before using this product, consult the Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage. Safety Data Sheets are available on request.

Our products are friendly to people, the environment and animals. Arro Protein Solutions is committed to product safety throughout the entire chain of custody.

Disposal Considerations

Dispose in accordance with all local, state and federal regulations. It is the user's responsibility to verify that disposal procedures comply with all regulations.

Contact Information

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