



NELSON BROTHERS SPECIALTY CHEMICALS EMULSIFIERS FOR EXPLOSIVES APPLICATION GUIDE

Nelson Brothers offers PIBSA (Polyisobutylene succinic anhydride) based emulsifiers for various explosive emulsion formulations. Our emulsifiers support stable emulsion explosive compositions with a wide variety of fuel phase and oxidizers. These offer excellent thermal stability, shelf-life, compatibility with single and dual salt oxidizers, desired viscosity response, and support both chemical gassing and positive sensitization regimes.

PRODUCT	CHARACTERISTICS
NBX2000A	Our legacy emulsifier is most suited to “AN only” physically sensitized emulsions—excellent prill compatibility under these conditions.
NB2000	Our “2000” emulsifier series are modifications of NBX2000A designed to increase application range, such as for chemical gassing compatibility.
NB2424	A proven emulsifier used worldwide, compatible with almost any source of AN. Our flagship emulsifier offers superior emulsion stabilities in a broad range of formulations; unique tolerance toward oxidizer phase contaminants. Considered to be the “Any AN Emulsifier.”
NB2400	Offers long shelf-life emulsions with optimum viscosity and pumping characteristics.
NBL6105	An upgraded version of our prior NB4745 emulsifier. Good emulsion stability across a full range of oxidizer pH's and compositions. Facile gassing with multiple gassing systems. Promotes smaller droplet sizes.
NB2119	General purpose emulsifier for AN and AN/SN bulk and packaged emulsions. Frequently used with a co-emulsifier like our NB5-2628.
NBL7150	Extremely facile formation characteristics in difficult emulsification processes; fast gassing, fast viscosification for moderate shelf-life applications.
NB5-2628	Co-emulsifier that aids in rapid emulsification (similar to SMO) but presents superior stability in combination with PIBSA primary emulsifiers.

Our R&D Services are capable of designing, testing, and customizing products unique to your needs.

AVAILABLE PRODUCT PACKAGING

- Drum (55 gallons)
- Flexi Tank (5500 gallons)
- Road Tanker (6000 gallons)
- IBC (275 gallons)
- ISO Tank (5500 gallons)
- Rail Car (26500 gallons)

Product and Safety Data Sheets are available from nbspecchem.com

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