Plastic Bonded Explosives

Overview
Ensign-Bickford Aerospace & Defense (EBA&D) Company is a leading provider of Plastic Bonded Explosives (PBX) to the aerospace and defense industries. EBA&D’s staff of scientists and engineers have extensive experience in the scale up and production of PBX products to meet DOD, aerospace and commercial requirements as well as developmental and specialty applications. No matter what the use, the products are designed to meet customer specifications in an efficient and cost-effective way. With a team of experienced chemists and technical personnel, as well as a diverse array of high-tech processes and analytical instrumentation, EBA&D is well established as experts in the field of energetic materials.

Application
Plastic Bonded Explosives are used in various forms such as Sheet, Detonating Cord, Paste, and Pressing Powders.

Description
Plastic Bonded Explosives, commonly referred to as PBX, generally consist of a PETN, RDX or HMX base explosive, plasticizers and binders resulting in a less sensitive, water-proof explosive.

Primasheet® 1000
Primasheet® 1000 Flexible Explosive is a waterproof PETN-based (63% nominal) flexible sheet explosive. It is manufactured as a continuous roll of varying lengths and thickness for a wide range of applications. It is type classified and qualified to MIL-E-46676 for use by US Military forces.

Primasheet® 2000
Primasheet® 2000 Flexible Explosive is a waterproof RDX-based (88% nominal) flexible sheet explosive. Primasheet® 2000 is manufactured as a continuous roll of varying lengths and thickness for a wide range of applications. It is qualified to MIL-E-46676 for use by US Military forces.
**LF-2 Explosive**
LF-2 is a sheet explosive specifically formulated for optimal performance in Reactive Armor Systems for combat vehicles. It is virtually insensitive to small arms bullet impact and fire but designed to react to high-velocity shaped charge jet stimuli. LF-2 has been formulated to self extinguish once set aflame. It is type classified for use on various US Military combat vehicle platforms.

**Advanced Cutting Explosive**
ACETM Advanced Cutting Explosive, manufactured IAW OES-0006, is a linear explosive cutting system with a novel shaped charge liner and optimized stand-off. It is produced in a variety of coreloads (explosive weight) to provide an extremely flexible cutting tool and is type classified and qualified to MIL-E-46676 for use by US Military forces. The relative shock insensitivity of the explosive minimizes accidental or inadvertent detonation.

**Slip On Boosters (SOB)**
SOB® Slip On Boosters are a flexible PETN-based explosive composition shaped into a cylinder. It is manufactured in six-, eight-, and twenty-gram units and is used primarily for increasing the output strength of a non-electric or electric detonator. Militarized Slip On Boosters are qualified to MIL-E-46676 and manufactured in accordance with the NAVSEA drawing 6545554 (MK140 MOD 0). Additionally, Slip On Boosters can be manufactured using an RDX based explosive composition for enhanced explosive output.

**Explosive Paste**
For wall breaching, explosive flyer plates, and other applications, the proven performance of EBA&D Explosive Paste offers comparable explosive performance to C-4 with equal or greater packing density. The compound’s viscosity, similar to caulk, offers rapid in-the-field deployment. Explosive Paste is available with either HMX or RDX base, and can be aluminized or polymerized as your application demands.