PAX-52 Extrudable Explosive

ON EVERY MISSION

FACT SHEET:

Stays Hand Moldable from -40˚F to 140˚F

Same Relative Effectiveness (RE) Factor as C-4

KEY FACTS:

- Provide a reliable demolition explosive with superior cold weather moldability in support of the Army's Regaining Arctic Dominance published 01/19/21
- Current C4 binder is very sensitive to temperature making it hard to mold/prime in cold weather missions. Blocks can shatter upon initiation in extreme cold.
- Users operating in cold conditions (<0˚F) will be able to pack/prime charges quicker reducing exposure and increasing probability of mission success.
- Per OUSD-A&S study Total Life Cycle Cost are anticipated to be 20-30% less. Material does not age harden and can be recycled so less waste.

Capabilities/Characteristics:

- Uses silicone to remain hand-moldable at extremes (-40˚F to 140˚F)
- Uses HMX to retain same Form/Fit/Function in M112 configuration
- Similar or better sensitivity & performance than C-4
- More environmentally friendly in manufacturing and operation; low toxicity to humans and environment
- Packing/forming operations performed 1-3x faster in cold conditions
- Extremely stable for long life
- Can be re-worked with no loss of moldability

Stakeholders:

- U.S. Army
- PM CCS within Joint Program Executive Officer for Armaments and Ammunition
- Maneuver Support Center of Excellence
- Combat Capabilities Development Command Armaments Center

Industry Partners:

- HMX: BAE Holston
- PAX-52 Manufacturer: TBD
- Demo Block LAP: TBD

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https://jpeoaa.army.mil/Project-Offices/PM-CCS/