

PEP™ Polymer Extraction Process

Removes Fouling From Vessels and Piping

SAFE

No manned entry into vessels
Non-toxic chemistry
Environmentally friendly
No hazardous waste
Replaces mechanical removal

EXPERIENCED

Our supervisors and crews have decades of experience in providing chemical cleaning services for petrochemical and refining applications.

EFFICIENT

Requires minimal footprint and support, mobilizing on-site with circulating equipment and a crew of two to three personnel per shift.

Typical Applications

Heat exchangers, pipelines, reactors, reboilers, separators, scrubber columns, knock out drums and polymer extruder equipment.



The Polymer Extraction Process (PEP™) is a highly effective chemical cleaning specialty used to remove polymer fouling in chemical plant vessels and piping. The service is effective with a wide range of molecular weight polymers and waxes found in ethylene and polymer production process equipment. PEP service cleans more thoroughly than mechanical methods, assuring longer process run times, improved efficiency and longer intervals between cleanings.

PEP service is performed by chemical circulation, with zero manned entry and no disassembly of process equipment. If suitable inlet and outlet connections are available, some projects can be completed while the process remains on line.

- Eliminates manned entry
- Non-toxic chemistry protects personnel and the environment
- Returns process equipment to service up to 60% faster than conventional cleaning
- Predictable results
- Lower total costs
- No disassembly or reassembly of process equipment required
- Does not harm metallurgy
- Eliminates risks of damage to interior surfaces, coils, agitators, and other equipment
- Does not generate significant waste
- Recovers chemical and material polymer for recycling
- Cleans more thoroughly than mechanical methods

“PEP™ service is a game-changer. It’s simply the most effective cleaning process, with big advantages in safety, turnaround speed, cost and environmental protection.”

Mike Dorton

PEP™ Service Subject Matter Expert

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PlastEx™ Chemistry *Part of PEP Service*

TECHNICAL SUPPORT

Mike Dorton is a recognized expert in chemical cleaning for process industry applications. Call Mike at 281-702-3478.

LESS DOWNTIME

PEP™ service is up to 60% faster than mechanical cleaning methods. It also cleans more thoroughly to provide longer run time intervals between cleanings.

TURNKEY SOLUTIONS

DeBusk Services Group provides a full portfolio of turnkey services to handle unexpected circumstances or related needs, including hydro blasting, degassing, vacuum services, tank cleaning and more.

For more information on any of our services please visit us at www.debusksg.com, call 281-941-9670 or send a message to sales@debusksg.com.

The key to PEP service is PlastEx™, a proprietary chemical cleaning agent used in the circulation process.

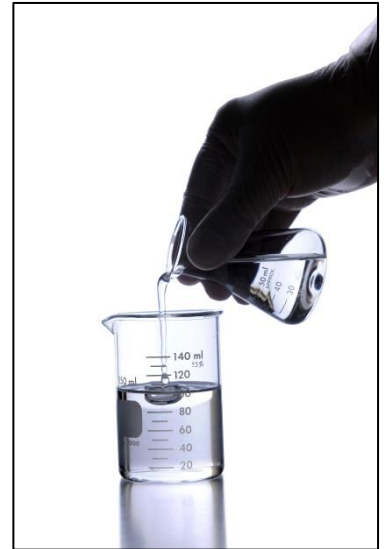
Fast-acting, effective. The unique chemistry dissolves polymer deposits uniformly, without dislodging large pieces that can plug flow paths downstream. PlastEx has a high boiling point and low vapor pressure to react quickly and thoroughly with polymer deposits.

Non-toxic. PlastEx is extraordinarily safe. It is classified by OSHA as non-hazardous and non-carcinogenic. PlastEx is FDA-compliant for food packaging. It is not regulated by the Department of Transportation (DOT) for air, land or water, and no special personal protective equipment is required at ambient conditions. It is safe for personnel, as well as simple and inexpensive to transport, prepare and apply.

Worry-free disposal. Material from the PEP process is recovered and, depending on your objectives, typically separated into liquid chemical and solid polymer components. Recovered chemical is available for reuse. Any liquid effluent from the process is minimal, requires no special handling and is considered non-hazardous material suitable for disposal in plant wastewater treatment systems. Solid polymer recovered from the process is ready for recycling or for disposal as non-hazardous waste.

Environmentally responsible. PlastEx is readily biodegradable and non-toxic to aquatic organisms. Under normal conditions, no special breathing protection is required for those working with or near a PEP project. The PEP process generates minimal odors, benefitting both plant personnel and the surrounding community.

Higher flash point. PlastEx is safer to use, with a flash point of 210° F (99° C). It is classified as a National Fire Protection Association (NFPA) Class IIIB combustible liquid with a hazard rating of 1 for flammability, similar to many paints and coatings.



PEP Service Advantages

- Generates virtually no waste
- PlastEx™ chemical is recoverable, reusable
- Polymer fouling is separated and recyclable
- Water-free process minimizes drying time
- Nitrogen purge removes any free chemical
- Detailed pre-project planning
- Accurate projections of completion times
- Uses ordinary chemical circulation skid

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