

INSIGHTS

**SPECIALITY
INNOTECH PVT. LTD.**
Innovation in PU Technology

SPECIALITY INNOTECH PVT LTD.

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“We are small enough to be flexible and competent enough to solve your problem.”

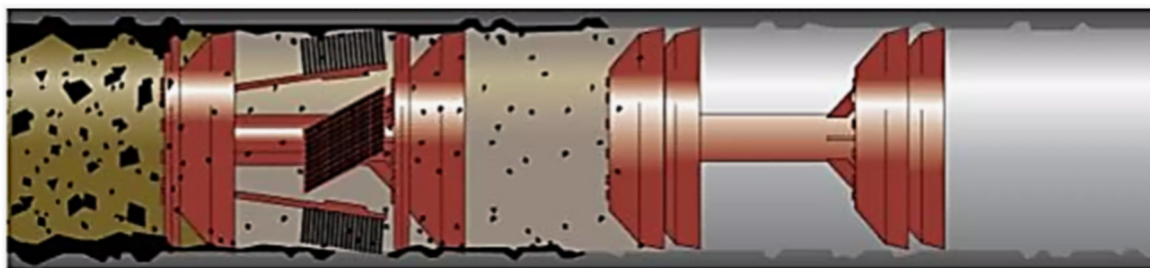
Polyurethane Pig Cup: Transforming Pipeline Maintenance in the Oil and Gas Industry:

For over two decades, we have leveraged our extensive expertise in cast polyurethane (PU) to serve a wide range of demanding applications. Our ability to customize the properties of polyurethane to meet specific application demands is one of our core strengths. With more than 1,000 satisfied customers across India and globe, we are proud to share one of our standout products—the polyurethane pig cup. This critical component plays a key role in pipeline maintenance within the oil and gas sector, ensuring efficiency, durability, and the smooth operation of pipeline.

Applications of Polyurethane Pig Cups:

Polyurethane pig cups are primarily used in the oil and gas industry for various pipeline maintenance tasks, such as:

1. **Cleaning:** Removing debris, scale, and build up from pipeline interiors to ensure unobstructed flow.
2. **Inspection:** Facilitating the use of inline inspection tools (smart pigs) to detect cracks, corrosion, and other anomalies.
3. **Separation:** Creating seals to separate different products within multiproduct pipelines.
4. **Hydro testing:** Ensuring proper seals for pressure testing during pipeline integrity assessments.
5. **Debris Removal:** Clearing leftover materials after pipeline construction or repairs.



Key Features of Polyurethane Pig Cups:

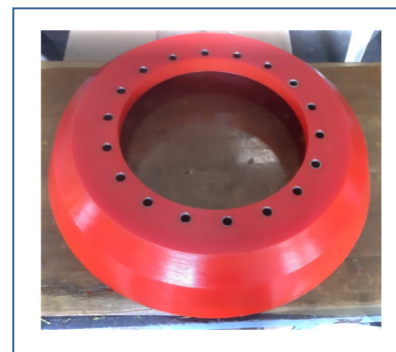
Polyurethane pig cups are precision-engineered to meet the rigorous demands of pipeline operations. Their distinct features include:

- **High Wear Resistance:** The exceptional abrasion resistance of polyurethane enables the pig cups to endure the harsh conditions typically found inside pipelines.
- **Flexibility and Toughness:** Combining toughness and flexibility, these pig cups can easily adapt to variations in pipeline surfaces without compromising performance.
- **Corrosion Resistance:** Polyurethane's resistance to chemicals, hydrocarbons, and corrosive substances commonly present in pipelines sets it apart from traditional materials.
- **Lightweight Design:** The lightweight nature of polyurethane pig cups makes them easier to handle and install, without sacrificing performance or durability.
- **Customizability:** Polyurethane can be precisely moulded to meet specific design and operational requirements, ensuring seamless compatibility with a wide range of pipeline pigging systems.

Advantages of Polyurethane Pig Cups:

Compared to traditional materials like rubber or plastic, polyurethane pig cups offer numerous advantages, including:

- **Extended Service Life:** Their superior wear resistance ensures a longer lifespan, reducing the need for frequent replacements.
- **Cost-Effectiveness:** The durability and performance of polyurethane pig cups help reduce overall maintenance and operational costs.
- **Improved Efficiency:** Their flexibility and adaptability ensure effective sealing and cleaning, even in pipelines with irregularities or bends.
- **Resistance to Harsh Environments:** Polyurethane's resilience against chemicals, extreme temperatures, and abrasive conditions makes it ideal for challenging pipeline environments.
- **Reduced Downtime:** The reliable performance of polyurethane pig cups minimizes pipeline downtime during maintenance activities.



Did you know?

Polyurethane can be engineered to be either rigid or flexible, making it perfect for a wide range of industrial applications!