TAMAR SEAL
Innovative sealing technology

**Reliable** | **Smart** | **Simple**

# *SUCCESS STORY*

## ***TAMAR 610-AGS seal***

### ***Top entry SPLIT reactor mixer***


TAMAR SEAL
Innovative sealing technology

# Application and Issue:

Customer manufactures flame retardant material in a reactor at 80°C.

The reactor is subjected to “sniffer” tests allowing a max **200ppm** emission value

Due to the nature and high viscosity of the material, the shaft experiences **high run out**

In addition, leakage of barrier fluid into the tank was a source of **contamination to the process**

The large shaft size, heavy gear and motor along with expensive downtime, made **seal replacement a very long and expensive** issue

## Operational Parameters:

- Sealed gasses: Toluene
- Working Temperature: 80°C (176°F)
- Shaft Dia.: 125mm (5”)
- Speed: 100rpm
- Pressure: 0.5 bar (8 psi)

TAMAR SEAL
Innovative sealing technology

# The solution

**TAMAR 610-AGS split seal with a nitrogen flush ring:**

- Eliminate use of a liquid based, face type seal - Eliminate seal barrier fluid
- Online constant injection system – a sealing barrier that holds the back of the air pressure
- Split seal design - eliminate the need of dismantling the mixer for seal repair
- Nitrogen flush – a customer request that will act as a safety mechanism for toluene leakage

TAMAR SEAL
Innovative sealing technology

# Installation procedure

**Step 1:** Install the seal on the bearing tower (the mixer was dismantled in order to take the old seal out)


**Step 2:** Run the shaft through the seal and head out to the field

TAMAR SEAL
Innovative sealing technology

# Start up and operation

**After installing the drive, final step was to connect the boosters and nitrogen flush**
**Operational emission test shows less than 50ppm!**

TAMAR SEAL
Innovative sealing technology

# Join the success!


www.tamar-tech.com