



**Tarsco**<sup>®</sup>  
a TF Warren Company

**Full service provider for  
storage tanks and terminals**

To meet anticipated growth in the Ethylene to Butene-1 market, the site owner of a Baytown, TX petrochemical facility wanted to store and supply Butene-1 from the co-located existing Ethylene facility. The site owner decided to build a process manufacturing plant which opened in 2018 to accomplish this objective.

The \$200 million facility provides co-monomer for polymer plant producing Polyethylene and converts petrochemical feedstock into the final olefin product, Butene-1, by dimerizing Ethylene.

Butene-1 is a colorless gas having an aromatic, gasoline odor and is slightly soluble in water. It is an important commercial chemical that is used in gasoline and rubber compounds and to make other chemicals.

To store the Butene-1, the general contractor awarded Tarsco a contract to build (1) ASME sphere to store the Butene-1 product. The project included the following activities:

- (1) ASME Div. 1 Sphere 72' dia. x 75 psig
- 35,000 barrels of product capacity
- Engineering
- Procurement
- Fabrication
- Construction
- Fireproofing
- Exterior coating
- Staircase
- Top platform

The completion of this sphere provided much needed product storage to enable the owner to meet the demand for Butene-1. The owner has secured long-term fee-based offtake agreements with multiple buyers that have committed to take nearly all of the nameplate 100,000 t/y Butene-1 capacity.



## **BUTENE-1 STORAGE SPHERE**

### **Baytown, TX USA**



Tarsco U.S.  
25000 Pitkin Road  
Spring, TX 77386  
832-299-3200

C191211-R210504

Tarsco Canada  
57 Old Onondaga Road West  
Brantford, Ontario N3T 5M1  
519-756-8222



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[www.tfwarren.com](http://www.tfwarren.com)