

Ixom Port Kembla operates two manufacturing processes.

- Sodium Bisulphite Solution (SBS) Manufacture
- Dilute Sulphuric Acid

## **Sodium Bisulphite Solution (SBS) Manufacture**

The SBS plant operates as a batch process to produce product 31% sodium bisulphite solution for customers such as the water treatment industry.

### **Sodium Bisulphite Solution Manufacture Process**

1. SMBS (sodium meta bisulphite) powder is added from bulk bags into a mixing tank containing water.
2. The mixed solution is tested, and the concentration is adjusted by adding extra water or powder (if required) to meet the required product quality.
3. The product is then pumped into a holding tank ready for despatch to customers via bulk road tanker.

## **Dilute Sulphuric Acid Manufacture**

This plant operates as a batch process to produce one main dilute acid grade to order.

### **Dilute Sulphuric Acid Manufacture Process**

1. Fresh 98.5% sulphuric acid is transferred via road tanker from the imported acid terminal to the 98.5% storage tank in the dilution plant.
4. Plant operators determine when a new batch of dilute acid (70% acid is the primary grade produced) is required and start the system up to produce it.
5. The computerised control system in the plant then controls the ratio of water and acid to mix to produce the desired product acid concentration.
6. The acid and water are mixed through a special mixing system which is cooled by cooling water circulating through a small cooling tower.
7. The cooled product acid is then stored in a specially designed fibreglass storage tank ready for despatch to customer via bulk road tanker.