



Products

MultiCore® is designed for a range of chemical products and gasses. For each application the suitability will be judged on the basis of the Material Safety Data Sheet (MSDS) of the product, to be submitted by the applicant.

Vopak

A global network



Vopak stores and handles a large variety of products for companies operating in the chemical and oil industries worldwide. With over 73 strategically located terminals in 29 countries on 5 continents, Vopak offers a truly global network.

MultiCore®
C.V.

YOUR PIPELINE SOLUTION

Vopak Chemicals EMEA B.V.

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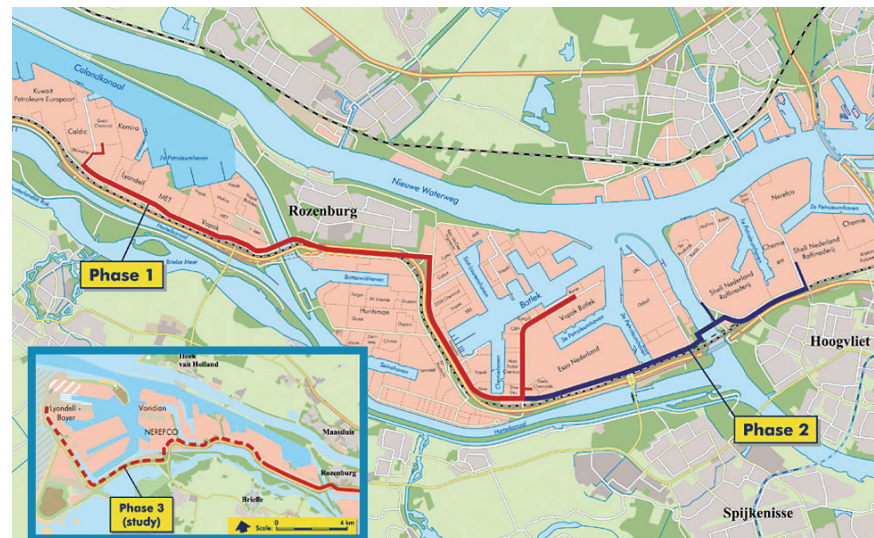


MultiCore® C.V. is a joint venture company of Port of Rotterdam and Vopak Chemicals EMEA B.V. MultiCore® commercially operates an underground distribution system for the chemical and gas industry consisting of a pipeline bundle through the port of Rotterdam. The pipelines in the bundle are designed for transport and distribution of chemicals and gasses between companies in the port area.

Our customers can obtain transport capacity by simply leasing a pipeline of MultiCore® over the required distance and a connection line between this pipeline and their own facilities. MultiCore® will take care of the permit for usage of its pipelines. The customer of MultiCore® will take care of transportation of its chemicals/gasses under the conditions of the permit. When the lease contract expires, the customer simply disconnects from the system and returns the pipeline cleaned and ready for lease again.

MultiCore® offers a cost effective transport alternative to truck or barge. MultiCore® combines the advantages of pipeline transport

- environment-friendly, safe, uninterrupted supply
- with the flexibility of leasing.



The Pipeline Route

Phase 1 (operational since Q1 2003):

Between Europoort and Botlek over a total distance of 14 km, from the junction Merwedeweg-Moezelweg (Europoort), along Moezelweg, under Calandcanal, along Europaweg and Botlekweg, to the end of Welplaatweg.

Phase 2 (operational since Q4 2003):

Between the junction Botlekweg-Welplaatweg via the Pipeline Tunnel Oude Maas to Pernis (Petroleumweg) over a distance of appr. 6 km.

Phase 3 (study):

Between Europoort (Moezelweg/Merwedeweg) and Maasvlakte (end of Europaweg) over a distance of appr. 17 km.

Bundle configuration

The bundle consists of 4 pipelines: one of 4 inch, one of 6 inch and two of 8-inch diameter. The 4-inch line is made of stainless steel, the other lines are made of carbon steel. The mutual distance between the pipelines is 250 mm. The bundle measures 650 x 600 mm. The design pressure is 10 Mpa. Products are to be transported under ambient conditions. The maximum allowed temperature is 45°C.

