



OILFIELD PIPE AND FITTINGS
FOR THE CONVEYANCE OF
LIQUID HYDROCARBONS

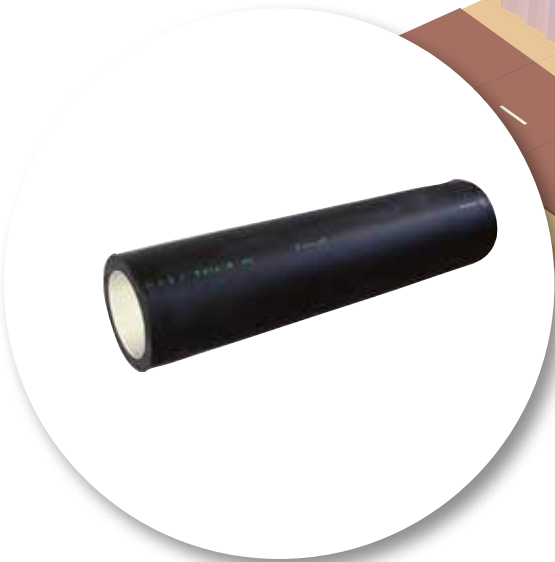


Oiltech starts with high quality materials and is precisely manufactured using advanced automated techniques. The result is a consistent multi-layer piping system that you can count on for long-term reliability. Oiltech is the best choice for handling the transport of crude oil and other petrochemical products.

Customer satisfaction is pursued through high quality products and the constant attention to our customers' needs and requirements. This is achieved through an effective team of people in post-sales, precise technical assistance and the intensive training of installers.

Featuring zero permeation to hydrocarbons, the Oiltech Series is the obvious choice to prevent against damage to the environment. The pressure rating of 300psi allows Oiltech to find its best operating conditions in a wide variety of oil and gas applications: petrochemicals and salt water, for both disposal and transmission lines.

Oiltech pipes are extruded as an advanced multilayer structure consisting of a base of HDPE piping that is internally lined with a chemically resistant material and bonded together in unitary fashion using a tie layer. It can be used in a wider temperature and pressure range than ordinary HDPE and can guarantee better compatibility to chemicals and lower permeation to hydrocarbons. Oiltech is also the ideal solution for high and low temperature pressure applications and for the lining and rehabilitation of existing pipelines.



- MULTILAYER PIPE STRUCTURE**
- Outer Layer in HDPE (PE 4710):**
Provides Mechanical Strength and Outer
 - Chemical Protection Inner Layer in Modified Polyamide:**
Provides Chemical Resistance and Permeation Barrier
 - Tie Layer:**
Binds Together Inner and Outer Layer

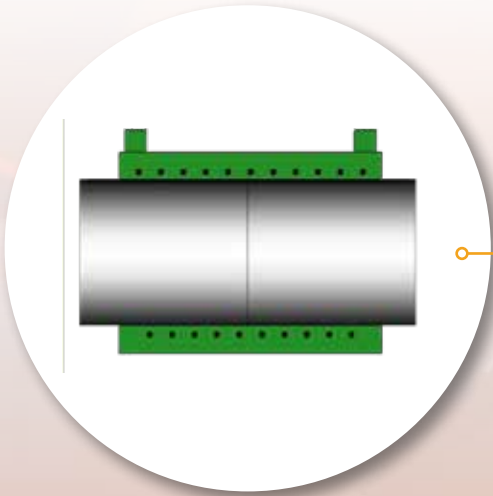
APPLICATIONS

Traditional materials are prone to rapid build-up of paraffin in the pipe requiring aggressive maintenance programs. Continuous and seamless Oiltech pipe runs, and the use of Oiltech electrofusion couplings, can virtually eliminate paraffin build-up and the need for hot oiling or chemical treatment.

Oiltech pipes can effectively replace steel in high and low temperature pressure applications, instead of more expensive unitary layer alternatives that make use of expensive engineering thermoplastics or piping systems made of Reinforced Thermoplastic Piping (RTP).

Oiltech is specifically engineered for conveying hydrocarbons in aggressive environments . . .

(e.g. H₂S, CO₂) where chemical resistance limits the use of conventional plastics as a unitary piping system for hydrocarbon applications due to permeability and compatibility concerns. By using Oiltech long pipe runs and Oiltech electrofusion fittings, substantial cuts in maintenance costs can be achieved and the installation time can be drastically reduced. Oiltech 300 lines can be installed either above ground or in standard ditches 3 feet deep.



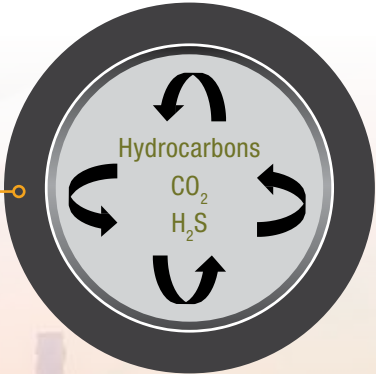
Oiltech 300 is a thermoplastic piping system which can be connected using compression fittings or butt fusion, but ideally Oiltech 300 is best installed using our Oiltech Electrofusion system of joining.



CHARACTERISTICS & BENEFITS

- Reduced Permeation to Hydrocarbons
- Smoothness of the Interior Wall
- No Paraffin Build-Up
- Larger Bore
- Excellent Chemical Resistance
- Excellent Against Build-Up of Scale
- Excellent Flow Properties Throughout its Service Life
- Multi-Layer Construction
- Light Weight
- Pipe Flexibility – Coils or Straight Length
- Not Permeable
- Corrosion Resistant
- Abrasion Resistant
- Low Coefficient of Friction
- No Transmission or Generation of Anti-Static Current
- Ease of Installation And Repair

When ordinary HDPE pipe is used for the transmission of crude oils, it will be affected over time by the hydrocarbons and other content within the oil to become soft and spongy. The HDPE will have to be replaced after a period of usage or there will be a risk of the pipe failing and subsequent damage to the environment. Oiltech solves this issue through its multilayer construction as the inner liner forms a barrier against the hydrocarbons and other additives.



TRACEABILITY

The traceability feature of the Oiltech electrofusion processor provides a total management system for all information regarding construction site, welds, the products installed, installation mapping by GPS tracking, and all subsequent testing activities. The Smartweld version of the processor manages welding by using WIFI and the internet for welding control and data management via cloud storage. Fingerprint detection is also an option for the recording the identity of the operator.

The Oiltech electrofusion system is the most advanced electrofusion joining method that has been developed for the installation of polyethylene pipes. Electrofusion is a well-known thermal fusion process between pipe and fittings, which occurs through heating a wire that is molded into the fitting. Heat is created by circulating an electrical current through the wire, which is limited to a maximum of 42 volts by international safety standards. Oiltech’s advanced system is the new benchmark in electrofusion joining methods.

OILTECH 300HT

Oiltech 300HT is the new composite piping system specially developed for industrial applications at high temperatures. The structural layer is made of PE-RT (Polyethylene of Raised Temperature Resistance) that is a new family of PE materials with significantly improved long-term strength at high temperatures. When compared to standard Oiltech 300, the HT (High Temperature) features higher temperature resistance.

Oiltech 300HT is the preferred choice in many applications where the service temperature is between 105°F and 180°F. It can be installed and handled in the same way as standard Oiltech 300, even though it is capable of higher pressure performance at elevated temperatures. It has the same flexibility as Oiltech 300 and can be joined by using electrofusion or butt fusion.



NUPI WELDING CLOUD is an APP designed for the most demanding installers that solves all the problems of welding traceability.



THE FULL TRACEABILITY

*The Most Reliable Welding & Site Data Management System
Smartweld Unit & Nupi Welding Cloud.*



For over 50 years, Nupi Americas has been an innovator and technological leader in the thermoplastic piping industry. Since its start as one of the first companies to extrude polyethylene pipe in Italy, Nupi has grown to offer a wide array of technically advance products with sales spanning the globe. In North America, Nupi operates as Nupi Americas. We are the fastest growing plastic piping company in the USA with growth of over 400% over the last 5 years. We started the company at our initial plant site in Houston, but have since grown to multiple locations. Our North America headquarters are now located in a 55 acre site in the low country of coastal South Carolina. Our initial building here is a 100,000 square foot building which houses our manufacturing and central warehousing operations.

Customer satisfaction is pursued through high quality products and the constant attention to our customers' needs and requirements.



Nupi Americas, Inc.
314 Commerce Parkway
Early Branch - SC 29916 - U.S.A.

ph. +1 803-398-3579
fax: +1 803 398 3639

1511 Superior Way
Houston - TX 77039 - U.S.A.

ph. +1 281 590 4471
fax +1 281 590 5268

info@nupiamericas.com
www.nupiamericas.com