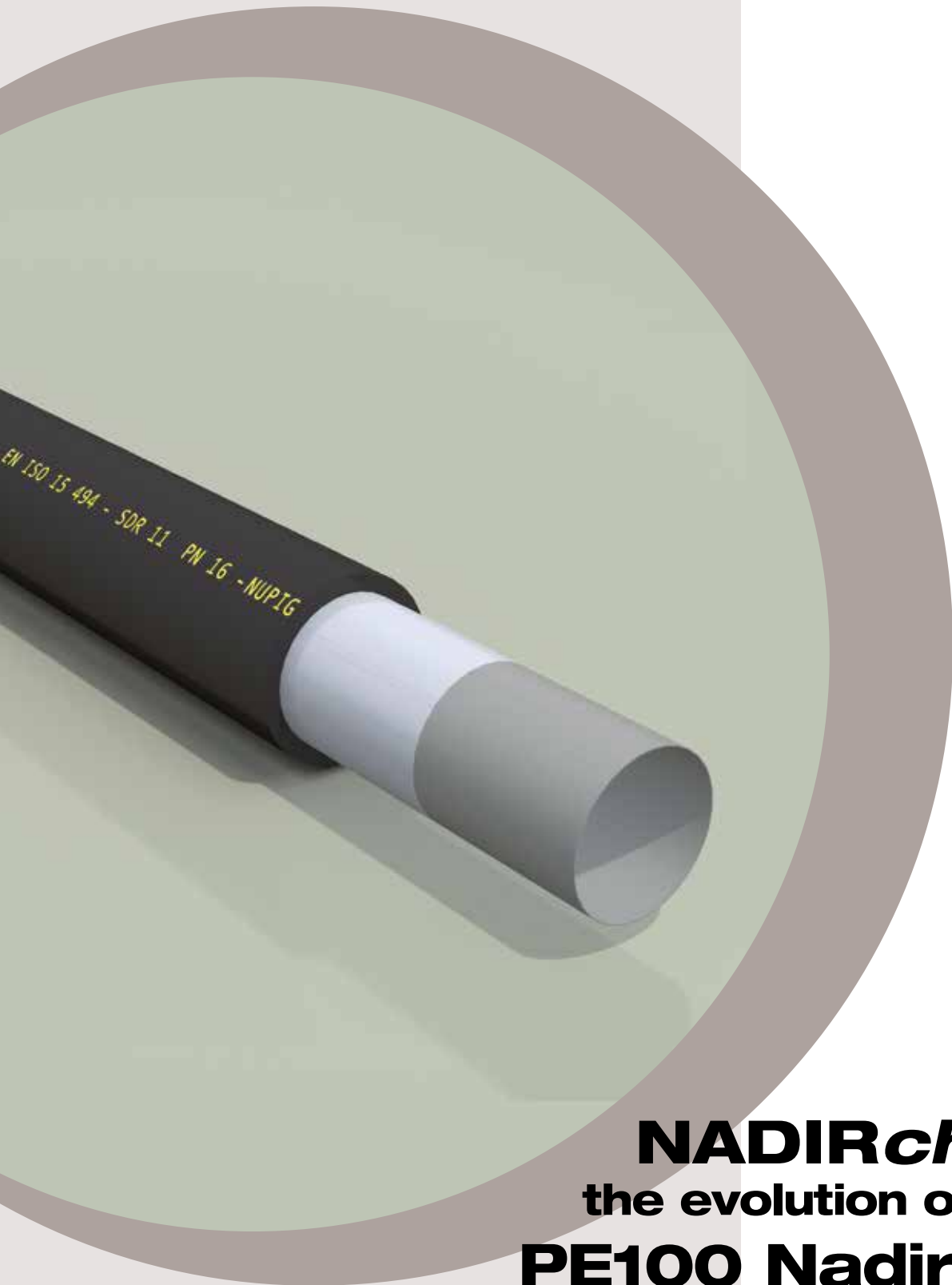


NADIR^{chem}



NADIR^{chem}
the evolution of
PE100 Nadir pipe
for chemically aggressive
industrial applications



THE PRODUCT

NADIRchem is a multilayer pipe specifically developed by **NUPI Industrie Italiane** to combine the **chemical barrier provided by a liner in PVDF** with the advantages offered by a **structural layer in crack-resistant PE100 RC**.



The presence of a suitable **inner layer in PVDF** gives the pipe **excellent performance in conveying industrial aggressive fluids** that could jeopardize the durability of a pipe made of standard PE or that would cause the adoption of excessive safety measures to make them sufficiently safe.

APPLICATION EXAMPLES

- **Swimming pools**
- **Industrial water treatment**
- **Recovery and purification of industrial water**
- **Energy engineering (cooling and water supply for general uses)**
- **Chemical plants**
- **Deposits of industrial liquids**



NADIRchem

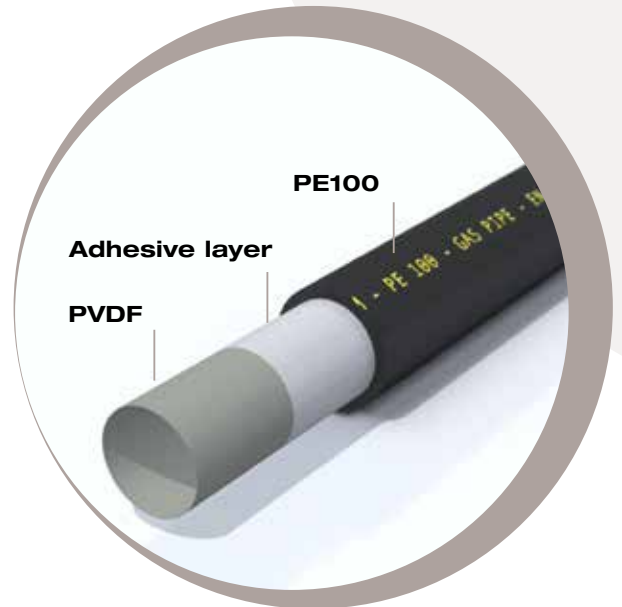
WHY NADIRchem?

NADIRchem is an ambitious project that exploits **NUPI Industrie Italiane** expertise in the production of multilayer plastic pipes to offer a reliable and inexpensive solution for industrial installations.

PVDF is a reliable, technologically advanced solution and is the best chemical barrier for most chemicals.

THE MULTILAYER NADIRChem PIPE CONSISTS OF:

- 1** An external layer in **PE100 RC** for mechanical resistance
- 2** An inner layer in **PVDF** which serves as a chemical barrier to corrosive fluids
- 3** A medium adhesive layer to create a perfect seal between **PE100 RC** and **PVDF**



THE RANGE

NADIRchem has been designed in diameters **32, 50, 63, 90** and **110 mm - SDR11**

QUALITY GUARANTEE



NADIRchem conforms to the following regulations:

EN ISO 15494 - piping systems for industrial applications.

ISO 21004 - multilayer thermoplastic piping systems for the conveyance of water (up to 40°C).

CHARACTERISTICS AND ADVANTAGES

- **High chemical resistance** to aggressive and oxidizing fluids
- **Electrically welded joints** and **complete traceability** thanks to bar-code technology
- **High flexibility** and lightweight if compared to PE100
- **High resistance to chipping, cracking, and point loading** thanks to the external layer in PE100 RC
- **Low head loss** thanks to the low roughness of the inner layer

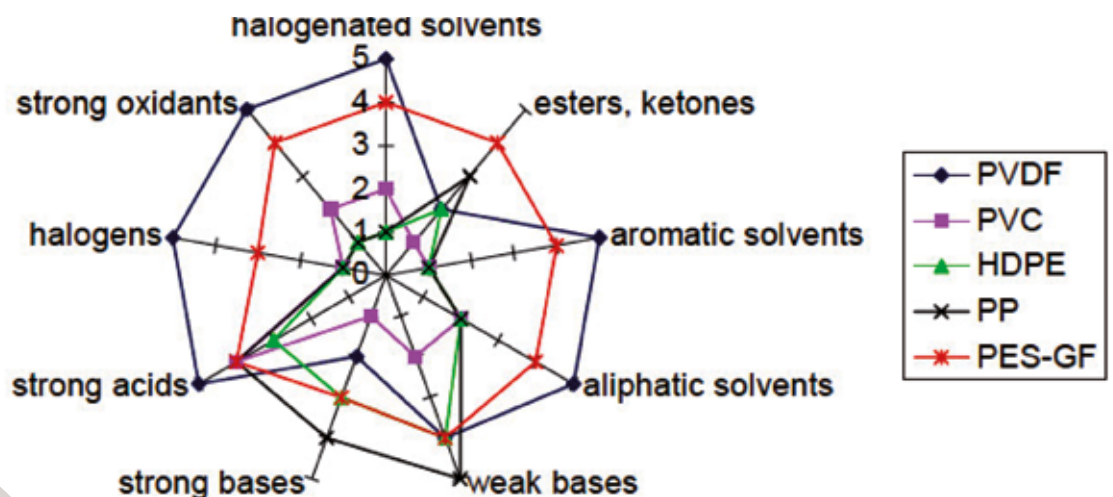
Another important peculiarity of **NADIRchem** is the possibility to continue using **standard joining and installation techniques** typical of a traditional polyethylene system.

NADIRchem can be welded by electrofusion and is therefore compatible with the whole range of **ELOFIT electrofusion fittings**.

CHEMICAL PERFORMANCE OF THE PVDF BARRIER

Proven chemical resistance to a wide variety of chemical substances, such as:

- **Acids**
- **Saline solutions**
- **Alcohol oxidising agents**
- **Chlorinated solvents**
- **Hydrocarbons**



COMPLETING THE RANGE



EloFIT

Electrofusion fitting range and special HDPE parts for the transport of water and gas under pressure.



EloSMART

Double wall fittings for industrial applications.



EloFIT

The **ELOFIT** range also includes all the tooling and equipment to support the installation, including the **welding unit - code E9001** - which guarantees welding traceability to make the installation totally reliable.



Registered Office and Headquarters

via Stefano Ferrario 8
21052 Busto Arsizio (VA) Italy
Ph. +39 0331-344211
Fax +39 0331-351860
info@nupinet.com
www.nupiindustriaitaliane.com

Production, Operations and Administration Centre

via dell'Artigianato 13
40023 Castel Guelfo (BO) Italy
Ph. +39 0542-624911
Fax +39 0542-670851
info@nupinet.com
www.nupiindustriaitaliane.com

Production Facility

via Colombarotto 58
40026 Imola (BO) Italy
Ph. +39 0542-624911
Fax +39 0542-670851
info@nupinet.com
www.nupiindustriaitaliane.com



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