



Alkadyne[®]



ENGINEERED TO OUTPERFORM

ALKADYNE[®] PE100 HDF 193B FROM QENOS

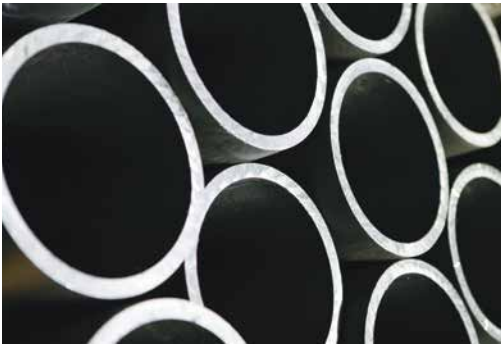


QENOS AUSTRALIA – BEST IN CLASS

Qenos is the recognised benchmark in Australia for the supply of premium world class PE100 Polyethylene grades for use in pressure pipes for water conservation and delivery, waste management, mining and gas.

As Australia's leading supplier of world-class polyethylene we use our polymer expertise, our global alliances and our application know-how to develop ground-breaking solutions to meet the needs of the growing pipe market.

We add value to Australia's rich oil and gas reserves by converting valuable natural resources into high value petrochemicals and plastics, which in turn are used to create innovative, engineered pipe solutions.



RAISING THE BAR ON RESIN PERFORMANCE

All Qenos Alkadyne® PE100 grades are designed to meet or exceed the key PE100 performance requirements for:

- Hydrostatic strength (MRS10)
- Slow Crack Growth Resistance (SCGR)
- Resistance to Rapid Crack Propagation (RCP)



ONLY A LOCAL REALLY KNOWS THE LOCAL CONDITIONS

Alkadyne® PE100 grades were developed by Qenos in partnership with Australian pipe manufacturers and standards authorities. Our close involvement in the local pipe industry has ensured that local product and processing requirements are fully understood and incorporated into each product design. Today we are proudly the only Australian manufacturer of high density polyethylene (HDPE) resin for PE100 pipe employing over 700 Australians.

RIGHT FROM THE START

Qenos Technical Service Staff are widely recognized for their analytical capabilities and expertise and are supported by our extensive Technical Centre facilities. This support not only ensures we can provide advice and support for the set-up and optimisation of Alkadyne® PE 100 grades at any manufacturing facility in Australia but also provides an extensive range of processing equipment to support application development and troubleshooting for customers. This capability has been critical in project design, installation and commissioning.



TESTED TO GO THE DISTANCE

Polyethylene pipe is an engineered product, required to withstand internal pressure and external influences for up to 100 years. We have invested in the largest pipe pressure testing facility in the southern hemisphere where we extrude pipe for testing, and then subject it to high pressures and heat for up to three years. This testing is also applied to notched pipe samples to prevent damage during installation.



QENOS OPERATES THE
LARGEST PIPE PRESSURE
TESTING FACILITY IN THE
SOUTHERN HEMISPHERE

READY WHEN YOU ARE

A superior supply chain and logistics base allows us to serve the Australian market with high efficiency and respond quickly to variations in demand. We offer a range of pack forms that can be delivered rapidly anywhere in Australia ex stock, while provision for Vendor Managed Inventory systems give customers maximum efficiency and hassle free bulk delivery.



LEAVE NOTHING TO CHANCE

Genos quality is driven by world class systems that are independently verified:

- Alkadyne® PE100 Black grades comply with AS/NZS 4131 for PE100 type compounds and are intended to be used in pipes conforming to AS/NZS 4130
- Alkadyne® PE100 Black grades are type test licensed to AS4131 by SAI Global (Lic. 20138)
- Our laboratories conduct all quality assurance on Alkadyne® PE100
- Product development and technical support for customers are performed in the Qenos Technical Centre which is NATA accredited for key PE100 resin quality and performance tests
- Qenos third party registrations provide independent confirmation of compliance to recognised standards including ISO 9001

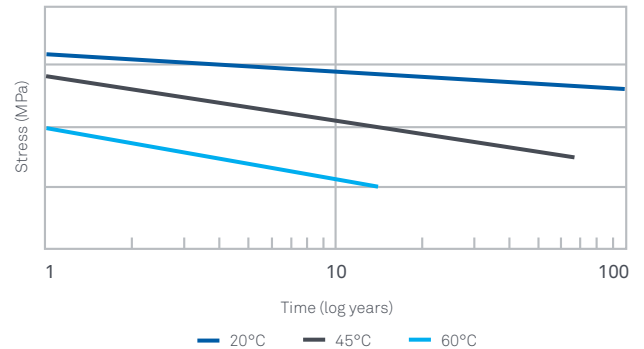


ALKADYNE® PE100 – HDF193B

BEYOND MINIMUM REQUIRED STRENGTH (MRS)

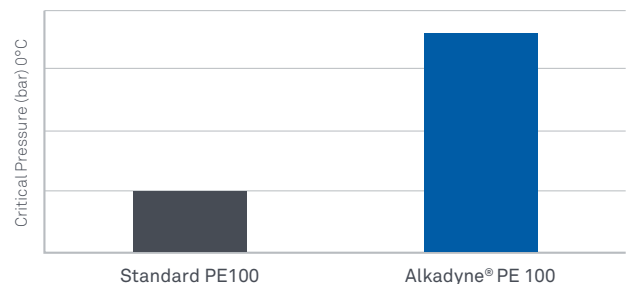
For Alkadyne® pipe grades, Genos maintains Pipe Pressure data beyond the PE100 standard requirements. Working with Genos Technical Service, your pipe design can be optimised to achieve:

- Maximum lifetime design
- Elevated usage temperature



SUPERIOR SLOW CRACK GROWTH RESISTANCE (SCGR)

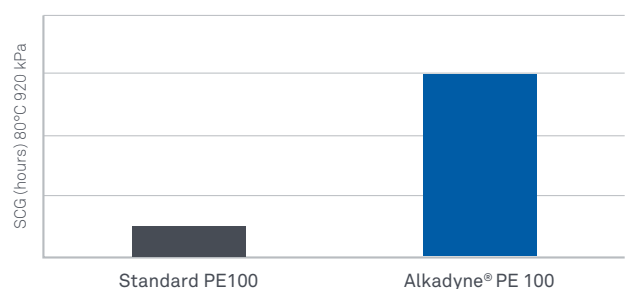
The Slow Crack Growth resistance (SCGR) of Alkadyne® PE100 far exceeds the PE100 standard requirements. Pipe designers are able to reduce contingency and whole of life project cost for projects requiring harsh installation conditions such as horizontal directional drilling (HDD).



HIGH RESISTANCE TO RAPID CRACK PROPAGATION (RCP)

Alkadyne® PE100 has passed Rapid Crack Propagation (RCP) tests at critical pressures well above the standard requirements. RCP performance for sub-zero application temperature is also available. RCP performance enables pipe designers to specify:

- Higher pressures
- Lower in-use temperatures
- Higher safety margins for fluid containment



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