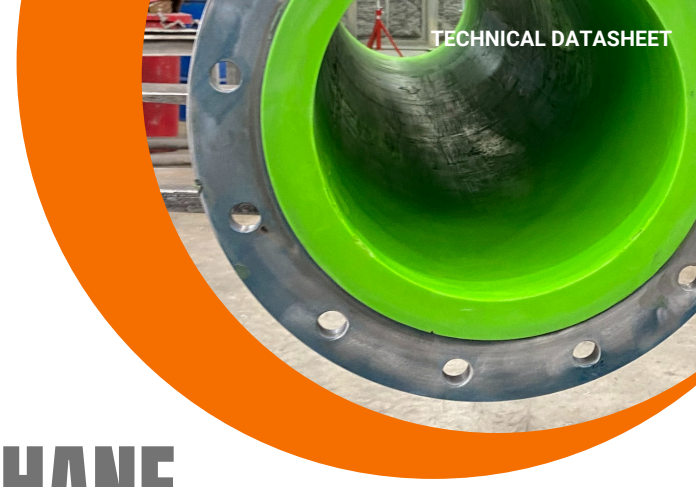


CNS-MDI85A
ENGINEERED POLYURETHANE

High-performance polyether-based Engineered MDI Polyurethane (PU) with a hardness of 85 Duro, specifically formulated to withstand wear and tear in the mining industry, designed and manufactured in Western Australia.

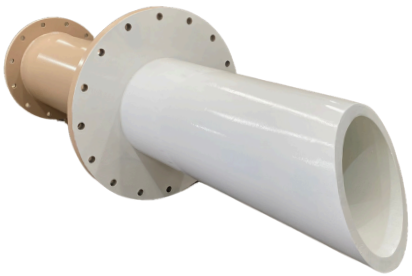
CNS-MDI85A is a high-performance Polyurethane crafted from a high-quality polyether-based MDI compound at our Western Australian facility, boasting remarkable durability against cutting, impact and abrasion.

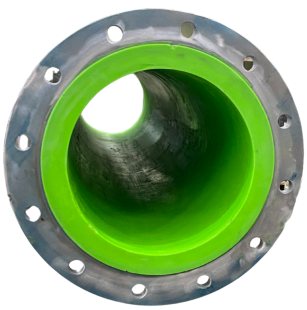
This material exhibits outstanding physical characteristics including exceptionally low viscosity and urethanes provide excellent low-temperature properties, high abrasion resistance - especially to impingement, outstanding hydrolytic stability and high resilience. Additionally, it comes equipped with fire resistant properties and can be easily customised to suit any application.

TECHNICAL INFORMATION	
POLYMER	MDI 85A
COLOUR	Green
HARDNESS	85 + Shore A
100% MODULUS	820 PSI (5.6 MPa)
TENSILE STRENGTH	5400 PSI (37.2 MPa)
ELONGATION AT BREAK	460%
SPLIT TEAR STRENGTH D-470	80 PLI (14 kN/m)
BELL BRITTLE POINT °F (°C)	<-80 (-63)
BASHORE RESILIENCE	64%
COMPRESSION SET (METHOD B) 22hr / 158°F (70°C)	29
SPECIFIC GRAVITY	1.09

FEATURES & BENEFITS

- Highly abrasion resistance.
- Designed to withstand wear up to 10 times longer than rubber, maximising longevity.
- Suitable for all environments & greater tear resistance.
- Last twice as long as other polyurethane products.





CNS-MDI85A
ENGINEERED POLYURETHANE

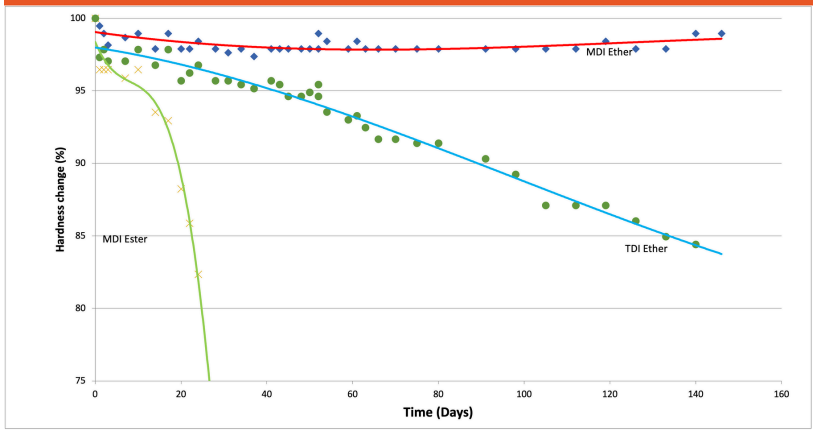
C&S utilises premium-grade MDI materials in our polyurethane formulations, distinguishing ourselves from the majority of Australian PU manufacturers who typically employ TDI systems. The use of raw material ensures superior product performance and enhanced safety characteristics.

CNS-MDI85A can be used in applications such as: pipe lining, conveyor belt pulleys, rollers, wheels, cyclone and pump components. Compared to our competitor's conventional TDI90A Systems, the benefits include:

- 20-30% higher rebound therefore improved small particle impact abrasion resistance.
- Improved colour stability/ weathering resistance compared to conventional TDI/ Diamine Cured Systems. therefore, no storage or aging concerns before the pipes are installed and utilised.
- No unpleasant odour - particularly compared to Ethacure 300 Cured products.
- Significantly improved hydrolytic stability in warm/ hot water applications (see below testing at 80°C).
- Improved resistance to attack from acidic and alkaline liquid environments.

HYDROLYTIC STABILITY

PIPELINE MATERIALS - HARDNESS CHANGE AT 80°C IN WATER



Product Characteristics:

- MDI Systems can be used in hot wet applications.
- At 80 in water:
- TDI Ethers last 5-10 Weeks
- MDI Ethers last 3-6 Months
- MDI Prepolymers are Superior Hydrolytically - higher temperature and chemically aggressive applications can be targeted.

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