

TYTON® DUCTILE IRON PIPE SYSTEMS

PN35 RUBBER RING JOINT DN100-750

For Potable Water, Raw Water,
Sewer and Aggressive Fluids



THE BENEFITS OF DUCTILE IRON

Pressure Class PN 35 matches the maximum flange table rating of the most common water industry applications.

Peace of mind considering water hammer, rogue surges, cyclic stresses, varying soil loads, unpredictable traffic loads, and all unforeseen rigours of a pipe system in construction, operation and maintenance.

Beam strength, heavy duty ring stiffness and critical buckling resistance across the entire size range.

Operational savings and benefits via larger bores with reduced headlosses, reduced pumping costs and increased flows.

EXTERNAL ZINC & EPOXY COATING

The external barrel is protected with a 200g/m² metallic zinc layer comprising of 99% pure zinc and finished with an epoxy layer of 100µm DFT providing active corrosion protection. Active protection means the pipe continues to be protected in the case of superficial damage to the external coating.

INTERNAL CEMENT, SEAL COAT & POLYURATHANE LININGS

Dimax cement linings are centrifugally applied. The pipes are spun with high radial acceleration, around 100g and are simultaneously vibrated, producing a very dense smooth lining of extremely low permeability.

From years of proven in service experience, Dimax cement linings are proven to be hydraulically smooth with Colebrook-White k factors for all new pipes commonly in the order of 0.01-0.03mm.

Dimax cement mortar protects the ductile iron actively due to the chemistry at the iron and cement interface. The cement mortar forms a passive film that inhibits oxidation of the pipe surface.



DN 100-750

TYTON XCEL

TYTON XCEL is synonymous with the introduction of pressure class DI Pipe into Australia. Efficiency gains and cost savings are achieved without sacrificing the time proven superior performance capabilities associated with ductile iron.

Lining Options

The standard lining is a centrifugally spun cement mortar lining made up of Type SR (Sulphate Resisting) cement.

An additional Seal Coat applied to the cement lining surface is available as an option to inhibit the leaching of lime where very aggressive, soft waters of low hardness (total alkalinity <30mg/L) or high dissolved CO₂ are being conveyed.

For the conveyance of potable water, recycled water & raw water

TYTON XTREME

TYTON XTREME incorporates a highly wear resistant Calcium Aluminate Cement (CAC) mortar lining.

This lining protects the internal surface from corrosion, tuberculation and bacteriogenic acid attack when conveying aggressive fluids common in sewage and wastewater pipelines. Perfectly watertight & prevents root ingress.

For the conveyance of wastewater including:

- Gravity & Pressure Sewer effluent
- Domestic waste waters
- Mining slurries & process water
- Fluids between pH4 and pH12

TYTON XCEED

When it comes to highly aggressive fluids Polyurethane (PU) is the lining which simply exceeds all expectation.

TYTON XCEED's PU lining is applied in accordance with EN15655 and has an average thickness of 1500µm.

For the conveyance of potable water, wastewater & sewer including:

- Very soft water (hardness less than 1mg/L) combined with extremely long residence times
- Mineral water, i.e. water whose chemical specifications must remain unchanged between the pipeline inlet and outlet
- Aggressive conveyants including septic sewage, high CO₂, chlorides, sulphates & brine
- Resistivity range of pH1-13

