

ECOTECH ADVANCE PIPING SYSTEM | CATALOGUE





ECOTECH PIPING ADVANTAGES



GERMAN-**ENGINEERED**



GERMAN RAW MATERIALS



BACTERIAL



SUPERIOR **FORMULATION**



HEAVY-DUTY **FITTINGS**



HOT & COLD **APPLICATIONS**



COMPLETE. RANGE



CHLORINE-RESISTANT



EUROPEAN DESIGN. Ecotech (Mega Green) Pipes adapts German-based aesthetics and function ensuring reliability. Its heavy-duty mold and award-winning design allows greater flow rates than typical fittings in the market.



MULTILAYER TECHNOLOGY. Ecotech pipes are buit with 2 layer of PPR Material to ensure greater durability. The inner layer contains anti-bacterial properties making water safe and clean.



GROOVED DOVETAIL STRUCTURE. Ecotech Fittings uses Ecotech Proprietary Dovetail Grooved Structure Technology which is more advanced than typical PPR fittings. It is more heavy-duty and has higher leak-proof performance.

ENHANCED PERFORMANCE. It can withstand temperature ranges from – 20°C to 95°C with an operating life of at least 50 years at 20°C. Its pressure tolerance is also higher with upper ranges of up to 1,500 PSI brought about by superior materials and formulation.

ECOTECH PIPING ADVANTAGES



Borealis Resins



KraussMaffei Machines



Non-branded Machines

Higher durability. Higher temperature and pressure tolerance. The pipes are built with the highest grade of resin available in Europe from Borealis and engineered with state-of-the-art German KraussMaffei Machines thus ensuring superior quality and durability compared to typical PPR pipes in the market.



ECOTECH PP-RCT PIPING

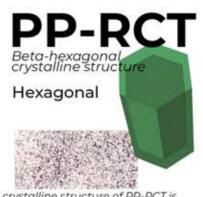
Ecotech Plus PP-RCT (Polypropylene Random Crystallinity Temperature) is the next generation of PPR piping systems. PPR-CT is a polypropylene random copolymer that, through the addition of special nucleation agents, forms crystallites in a hexagonal beta structure. Combining the new structure and formulation of Ecotech Plus pipes results in a considerably higher strength at higher temperatures.

HOWIT WORKS

Hexagonal Structure of the Polymer

The hexagonal crystalline structure of the PP-RCT pipe enables considerable mechanical resistance even at high temperatures





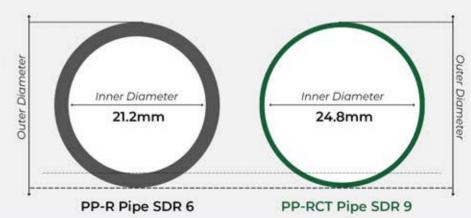
The crystalline structure of PP-RCT is much finer than that of traditional PP-R.

35%

increase in volume flow rate vs. standard PPR pipes

30% cost savings with lower pipe size requirements

SAME outside diameter, LARGER inner diameter.



ECOTECH SIZE STANDARDS COMPLIANCE

Based on DIN 8077: 2008-09

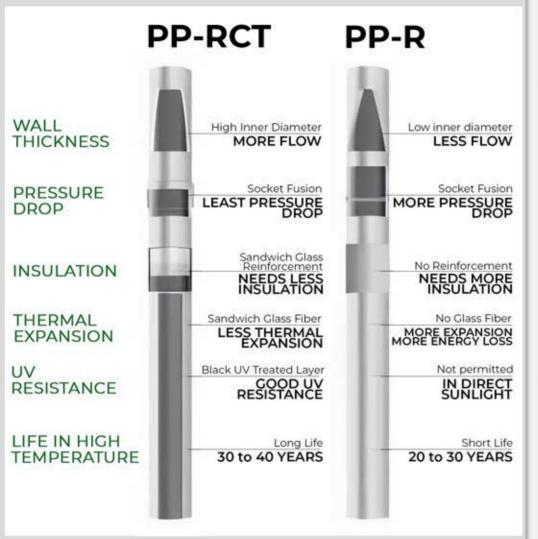
Nominal Inside Diameter Required
15.00mm (1/2")
20.0mm (3/4")
25.0mm (1")
32.0mm (1 1/4")
40.0mm (1 1/2")
50.0mm (2")

PP-R SDR 6			
O.D.	Thk	I.D.	
20.0	3.4	13.2	
25.0	4.2	16.6	
32.0	5.4	21.2	
40.0	6.7	26.6	
50.0	8.3	33.4	
63.0	10.5	42.0	

PP-RCT SDR 9			
O.D.	Thk	I.D.	
20.0	2.3	15.4	
25.0	2.8	19.4	
32.0	3.6	24.8	
40.0	4.5	31.0	
50.0	5.6	38.8	
63.0	7.1	48.8	



ECOTECH PPR-CT ADVANTAGES



INTERNATIONALLY CERTIFIED

















ECOTECH PPR-CT SPECIFICATION HIGHLIGHTS

The base material is a polypropylene (PPR-CT) with its typical quality characteristics (EN ISO 15874). All materials are subject to natural ageing. Even PPR-CT is subject to this law of nature. Temperature and stress dependent "creep curves" indicate the long service life to be expected.

Thanks to special technical know-how, ECOTECH is particularly impact-resistant at temperatures down to -5°C.

Density	0,91 g/cm ³
Melting Point	~ 140°C
Tensile Strength	40 N/mm²
Elongation at Break	800%
E Modulus (20°C)	800 N/mm²
Spec. Heat	2 kJ/kg K
Thermal Conductivity	0.24 W/mK
Spec. Thermal Expansion	0.14 mm/mK



FCOTECH PPR RANGES

Product Colors



Ecotech Plus PPR-CT Pipe







Mono Layer PN 20



Coupling



Coupling Reducer







Elbow 45



Elbow Reducer



Tee Equal



Tee Unequal



Coupling Adaptor Female



Coupling Adaptor Male

Sizes
20x 1/2"
25x 1/2"
25x 3/4"
32x1"
40x1 1/4"
50x1 1/2"
63x2"
75x2 1/2"
90x3"
110x4"

Elbow Female Adaptor



Elbow Male Adaptor



End Cap



Threaded Cap



Flange Set



PP Union

8	Sizes
	20mm
	25mm
	32mm
	40mm
	50mm
	63mm

Tee Female Adaptor





Union Patente Female



Union Patente Male



Check Valve



Hose Bibb



Ball Valve



Double Union Ball Valve



Heavy-duty Stop Valve



High-end Stop Valve









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