



HIGHER CHLORINE RESISTANCE
FOR BLUE PE WATER PIPES

Chlorblue® is the preferred choice for use in applications where the water has an elevated level of chlorine and temperature.

- ✓ **Extends service life in drinking water systems with higher temperatures and elevated chlorine levels:** Improved service life in high temperature chlorine drinking water applications compared with existing PE100. Vinidex can provide guidance for your area and water application in terms of which products will provide acceptable service life.
- ✓ **Dimensionally compatible with existing PE100 pipes and fittings:** Can be joined the same way as any other PE100 system.
- ✓ **Ideally suited to the hot areas of Northern Australia**
- ✓ **Accredited to Australian Standard AS/NZS 4130 and Watermark**
- ✓ **Manufactured using higher chlorine resistant CC2 rated PE100 material**
- ✓ **Twin stripes for easy identification:** Branded with twin blue stripes to signify higher chlorine resistance CC2 classification.




Chlorblue® CC2 PE 100 AS4130 BLUE STRIPE										
OD (mm)	PN	SDR	Colour/ Configuration	Length (m)						
				3	6	25	50	100	150	200
Vinidex Code										
25	20	9	Twin Blue Stripe	23248	23214	23247	23243			23215
32	20	9		23249	23216	23217	23244			23218
40	16	11			23219		23239		23220	
50	16	11			23227		23240		23222	
63	16	11			23223		23224	23241		23242

Plastics Industry Pipe Association (PIPA) POP018 "Polyethylene Drinking Water Pipes in Contact with Chlorine and Chloramine Disinfectants" outlines the Chlorine Classification (CC) Index set out in the US ASTM Standard D3350:2014 "Standard Specification for Polyethylene Plastics Pipe and Fittings Materials".

Higher classification materials will withstand higher levels of chlorine, temperature and pressure over time. Vinidex Chlorblue® is manufactured using higher chlorine resistant CC2 rated PE100 material.

PE Material Class for Oxidative Resistance (Chlorine Classification)	Oxidative Resistance (ability to withstand elevated chlorine, temperature, pressure over time)
CC3	Highest
CC2	Higher
CC1	Base classification

SUITABLE FOR A WIDER RANGE OF APPLICATIONS AND CONDITIONS

PIPA POP018 provides guidelines on the suitable application zones based on specific drinking water conditions at a location (considering local average water temperature, chlorine and pH levels).

CC1 (Assumed existing PE100 materials)

As diameter increases the pipe will be able to be used in a broader range of temperature zones.

DN 25 to DN50 PE 100 SDR 11 (PN16) pipe (refer POP018) System Pressure ≤ 600kPa									
Residual Cl mg/L	Average Water pH								
	6.5	6.75	7	7.25	7.5	7.75	8	8.25	8.5
0.5	Green	Green	Green	Green	Green	Green	Green	Green	Green
0.7	Green	Green	Green	Green	Green	Green	Green	Green	Green
1	Green	Green	Green	Green	Green	Green	Green	Green	Green
1.5	Green	Green	Green	Green	Green	Green	Green	Green	Green
2	Green	Green	Green	Green	Green	Green	Green	Green	Green
2.5	Green	Green	Green	Green	Green	Green	Green	Green	Green
3	Green	Green	Green	Green	Green	Green	Green	Green	Green
4	Green	Green	Green	Green	Green	Green	Green	Green	Green

ORPs > 825 are not considered in POP018; CC1 PE100 NOT RECOMMENDED

Example: Average Water pH 7.25 & Residual Chlorine 1.5mg/L

CC1 PE100 suitable for water temperatures up to 21°C

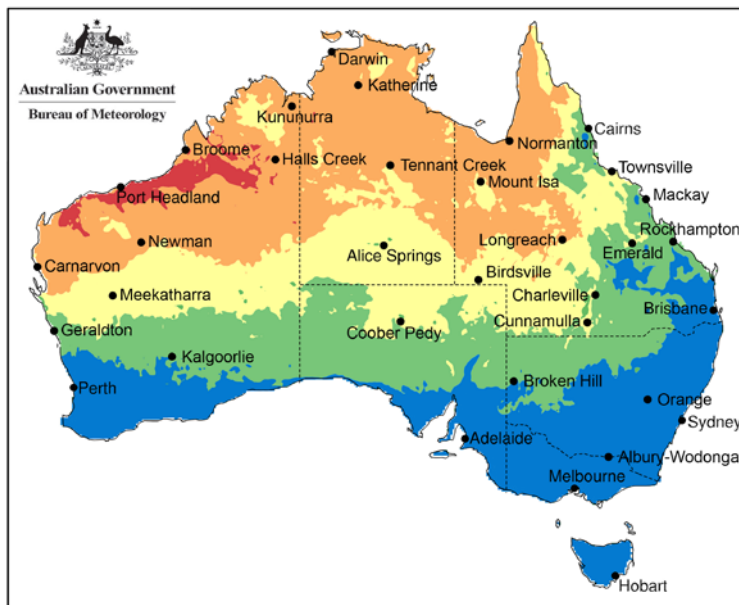


As diameter increases the pipe will be able to be used in a broader range of temperature zones.

DN 25 to DN 50 PE 100 CC2 SDR 9 (PN20) pipe System Pressure ≤ 600kPa									
Residual Cl mg/L	Average Water pH								
	6.5	6.75	7	7.25	7.5	7.75	8	8.25	8.5
0.5	Red	Red	Red	Red	Red	Red	Red	Red	Red
0.7	Red	Red	Red	Red	Red	Red	Red	Red	Red
1	Red	Red	Red	Red	Red	Red	Red	Red	Red
1.5	Red	Red	Red	Red	Red	Red	Red	Red	Red
2	Red	Red	Red	Red	Red	Red	Red	Red	Red
2.5	Red	Red	Red	Red	Red	Red	Red	Red	Red
3	Red	Red	Red	Red	Red	Red	Red	Red	Red
4	Red	Red	Red	Red	Red	Red	Red	Red	Red

CC2 PE100 Chlorblue® suitable for water temperatures up to 33°C

Annual Average Soil Temperature 2010-2015, 0.35-1.0m depth



For the same range of water conditions, Vinidex Chlorblue® can be used in a much larger range of temperature zones without needing to increase pipe size or pressure classification compared to traditional PE100 material.

As a result, Vinidex Chlorblue® is the ideal solution for the large range of water temperature and chlorine levels encountered across Australia.

© Commonwealth of Australia 2018, Australian Bureau of Meteorology BARRA Reanalysis Data. Issued: 20/04/2018
Note: This data and map have been provided by the Australian Bureau of Meteorology however Vinidex Pty Limited have overlaid additional locations.

Source: PIPA POP018 Polyethylene Drinking Water Pipes in Contact with Chlorine and Chloramine Disinfectants



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