

## PPRCT FR Composite Pipes & Fittings

Composite piping engineered to ISO 15874 & ISO 9080 standards

PPRCT SERIES

### OPERATING TEMPERATURE

**-5°C to +95°C**

Refer pipe selection chart

### PRESSURE CLASSES

**PN10 • PN16 • PN20**

SDR11 / SDR7 / SDR6

### THERMAL CONDUCTIVITY

**0.135**

Btu/hr·ft·°F

### STANDARD LENGTH

**5 m**

Socket fusion welding

## Specifications & Parameters

| CRITERIA                   | SPECIFICATION STANDARD                                                                                                                                                        |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Company Brand              | ANJNEY                                                                                                                                                                        |
| Product Brand              | PPRCT                                                                                                                                                                         |
| Raw Material Standard      | ISO 9080                                                                                                                                                                      |
| Manufacturing Standard     | Pipes: ISO 15874-2 : 2012<br>Fittings: ISO 16962 – Part 5 to 10                                                                                                               |
| Product Colour             | Green with U.V. resistant black layer — as per physical sample                                                                                                                |
| Material Composition (MOC) | Multi-layer technology — 60% Glass Fibre & 40% PPRCT (inner & upper layer)                                                                                                    |
| Thermal Conductivity       | 0.135 Btu/hr·ft·°F                                                                                                                                                            |
| Surface Roughness (Ra)     | 0.1 - 0.3 Micron                                                                                                                                                              |
| C-Value (Hazen-Williams)   | 145 - 150                                                                                                                                                                     |
| Pressure Class Range       | <ul style="list-style-type: none"> <li>PN10 — SDR11</li> <li>PN16 — SDR7</li> <li>PN20 — SDR6</li> </ul>                                                                      |
| Mechanical Parameters      | <ul style="list-style-type: none"> <li>MRS (Minimum Required Strength): 12.5</li> <li>CRS (MPa): 5.9</li> <li>Other technical parameters as per Material Datasheet</li> </ul> |
| Grade Classification       | As per ISO 12162 — PPRCT 112.5                                                                                                                                                |
| Temperature Resistance     | -5°C to +95°C — refer pipe selection chart                                                                                                                                    |
| UV Resistance              | UV-resistant carbon-content black layer permits direct-sunlight (outdoor) use with limited life*                                                                              |

| CRITERIA                                  | SPECIFICATION STANDARD                                                                                                                                                                                                                                                                                                                                                                                        |           |                        |       |       |       |       |       |       |        |       |        |        |        |        |        |        |        |        |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3 <sup>rd</sup> Party Hydro Pressure Test | <p>As per ISO 15874-2 : 2012, approved by CIPET:</p> <ul style="list-style-type: none"> <li>• Internal pressure resistance at 20°C for 1 hour</li> <li>• Internal pressure resistance at 95°C for 22 hours</li> <li>• Internal pressure resistance at 95°C for 165 hours</li> <li>• Internal pressure resistance at 95°C for 1000 hours</li> </ul>                                                            |           |                        |       |       |       |       |       |       |        |       |        |        |        |        |        |        |        |        |
| Warranty                                  | As per Warranty Manual*                                                                                                                                                                                                                                                                                                                                                                                       |           |                        |       |       |       |       |       |       |        |       |        |        |        |        |        |        |        |        |
| Standard Length                           | 5 Mtr                                                                                                                                                                                                                                                                                                                                                                                                         |           |                        |       |       |       |       |       |       |        |       |        |        |        |        |        |        |        |        |
| Type of Welding                           | Electrofusion Welding, Socket Fusion Welding                                                                                                                                                                                                                                                                                                                                                                  |           |                        |       |       |       |       |       |       |        |       |        |        |        |        |        |        |        |        |
| Inner Diameter*                           | <table> <tr> <th>SIZE (OD)</th><th>APPROX. INNER DIAMETER</th></tr> <tr> <td>63 MM</td><td>50 MM</td></tr> <tr> <td>75 MM</td><td>65 MM</td></tr> <tr> <td>90 MM</td><td>78 MM</td></tr> <tr> <td>110 MM</td><td>95 MM</td></tr> <tr> <td>160 MM</td><td>138 MM</td></tr> <tr> <td>200 MM</td><td>173 MM</td></tr> <tr> <td>250 MM</td><td>216 MM</td></tr> <tr> <td>315 MM</td><td>270 MM</td></tr> </table> | SIZE (OD) | APPROX. INNER DIAMETER | 63 MM | 50 MM | 75 MM | 65 MM | 90 MM | 78 MM | 110 MM | 95 MM | 160 MM | 138 MM | 200 MM | 173 MM | 250 MM | 216 MM | 315 MM | 270 MM |
| SIZE (OD)                                 | APPROX. INNER DIAMETER                                                                                                                                                                                                                                                                                                                                                                                        |           |                        |       |       |       |       |       |       |        |       |        |        |        |        |        |        |        |        |
| 63 MM                                     | 50 MM                                                                                                                                                                                                                                                                                                                                                                                                         |           |                        |       |       |       |       |       |       |        |       |        |        |        |        |        |        |        |        |
| 75 MM                                     | 65 MM                                                                                                                                                                                                                                                                                                                                                                                                         |           |                        |       |       |       |       |       |       |        |       |        |        |        |        |        |        |        |        |
| 90 MM                                     | 78 MM                                                                                                                                                                                                                                                                                                                                                                                                         |           |                        |       |       |       |       |       |       |        |       |        |        |        |        |        |        |        |        |
| 110 MM                                    | 95 MM                                                                                                                                                                                                                                                                                                                                                                                                         |           |                        |       |       |       |       |       |       |        |       |        |        |        |        |        |        |        |        |
| 160 MM                                    | 138 MM                                                                                                                                                                                                                                                                                                                                                                                                        |           |                        |       |       |       |       |       |       |        |       |        |        |        |        |        |        |        |        |
| 200 MM                                    | 173 MM                                                                                                                                                                                                                                                                                                                                                                                                        |           |                        |       |       |       |       |       |       |        |       |        |        |        |        |        |        |        |        |
| 250 MM                                    | 216 MM                                                                                                                                                                                                                                                                                                                                                                                                        |           |                        |       |       |       |       |       |       |        |       |        |        |        |        |        |        |        |        |
| 315 MM                                    | 270 MM                                                                                                                                                                                                                                                                                                                                                                                                        |           |                        |       |       |       |       |       |       |        |       |        |        |        |        |        |        |        |        |
| Material Safety — Storage & Installation* | Store in a dry place. For installation safety, refer to the Do's & Don'ts sheets.                                                                                                                                                                                                                                                                                                                             |           |                        |       |       |       |       |       |       |        |       |        |        |        |        |        |        |        |        |

\* Items marked with an asterisk are subject to the applicable Warranty Manual, product selection charts, physical samples and the Do's & Don'ts / installation guidelines. Values are typical and may vary within the declared standards. **MRS** Minimum Required Strength · **CRS** Circumferential/Creep Strength · **SDR** Standard Dimension Ratio · **MOC** Material of Construction.

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