

DUCTILE IRON PIPE

RESEARCH ASSOCIATION

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LININGS AVAILABLE FOR DUCTILE IRON PIPE & FITTINGS

<u>Description</u>	<u>Maximum Service Temperature (°F)¹</u>	<u>Uses</u>	<u>Thicknesses</u>
Portland Cement Mortar ² with Sealcoat without Sealcoat	150° 212°	<u>Common:</u> Drinking Water Sea Water Non-Septic Gravity Sewers Sanitary Sewer Force Mains Reclaimed Water	Standard or Double (ANSI/AWWA C104/A21.4)
Fusion-Bonded Epoxy (Fittings Only)	120° - 150° ¹	<u>Common:</u> Drinking Water Non-Septic Gravity Sewers Sanitary Sewer Force Mains Reclaimed Water	See footnote 4 (ANSI/AWWA C116/A21.16)
Petroleum Asphalt Coating	150°	<u>Common:</u> Air	1 mil (nominal)
Ceramic Quartz Filled Amine Cured Novalac Epoxy ³	120° - 150° ¹	<u>Common:</u> Septic Sewers Acids Alkali Waste Pickling Brine <u>Other Acceptable Services:</u> Reclaimed Water	40 mil (nominal)

¹Maximum service temperatures listed are intended as general guidelines which may vary depending on service conditions and lining formulation. Consult pipe manufacturer for specific recommendations.

²ASTM C150 Type V sulfate resisting cement is recommended for seawater applications and some reclaimed water applications. Consult pipe manufacturer for specific reclaimed water recommendations.

³Consult pipe manufacturer for specific service use and material details.

⁴Recommended lining thicknesses may vary depending on service conditions, epoxy formulation, diameter, and other variables. Consult fitting manufacturer for specific recommendations.