

# Technique Parameter

Nominal Pressure Compensation Factor							
When pipelining of medium above 20°C or under 20°C, the nominal pressure of pipes should be revised.							
Temperature °C	-20≤t≤-10	-10≤t≤0	0≤t≤20	20≤t≤30	30≤t≤40	40≤t≤50	50≤t≤60
Compensation Factor	0.90	0.95	1.00	0.95	0.90	0.86	0.81

Main Technique Properties		
SN	Items of Technique Properties	Index
1	Medium Temperature	-20°C ≤ t ≤ 65°C
2	Modulus of Elasticity	2.8-4.0Gpa
3	Erosion Resistance	Good
4	Coefficient of Heat Conductivity	0.2-0.3w/m.k
5	Wall Roughness	R <sub>a</sub> =0.007
6	Coefficient of Linear Expansion	12-15×10 <sup>-5</sup> m/m.k

Mechanical Properties			
Items			Index
Hydraulic Test	Feedwater System	Temperature: 20°C	Free of crack and leakage
		Time: 1 Hour	
		Pressure: Nominal Pressure × 2	
		Temperature: 80°C	
		Time: 165 Hours	
	Pressure: Nominal Pressure × 2 × 0.71		
	Gas System	Temperature: 20°C	
		Time: 1 Hour	
		Pressure: Nominal Pressure × 1.6 × 1.5	
		Temperature: 80°C	
Time: 165 Hours			
Pressure: Nominal Pressure × 1.6 × 1.5 × 0.71			
Bursting Pressure Test	Feedwater System	Temperature: 20°C	Bursting
		Bursting Pressure ≥ Nominal Pressure × 3.0	
	Gas System	Temperature: 20°C	
		Bursting Pressure ≥ Nominal Pressure × 3.3 × 1.6	
Thermal Stability (200°C) min			> 20
Weather-Resistance (after the pipes suffered more than 3.5GJ/m aging energy)			Free of crack and leakage; Except for Black SRTP