

Appendix N1 Atmospheric corrosion

Table 1 Corrosion rate of carbon steel in various areas

Table 1 Corrosion rate (mm/year)

Environment	Area	Temp °C		
		10	25	50
Atmosphere	Industrial area	0.10	0.15	0.3
	Coastal area	0.08	0.12	0.24
	Countryside	0.005	0.01	0.015
Ocean	On the sea	0.25	0.5	1.0
	Sea water droplet area	0.25	0.5	1.0
	Tide area	0.10	0.15	0.3
	Under sea	0.12	0.2	0.4

Source) Iwao Matsushima, Corrosion in natural atmosphere, Corrosion theory series, (3) Vol.31 No.7,1

Corrosion rate for stainless steels (Cr content is over 13%) is 0 mm/year, However, it will rust when sea salt particles adhere to it.