



Corrosion Protection

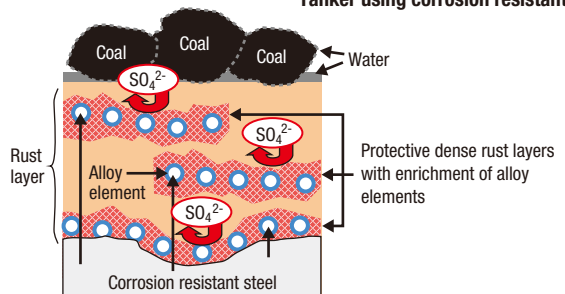
JFE Steel is developing various corrosion resistant steels in order to contribute to reduction of the customer's life cycle cost (LCC), and solution technologies for supplying appropriate corrosion resistant steels.

Corrosion Resistant Steel for Ships

Ships are an important means of transportation in the globalizing world. JFE Steel is committed to supporting the corrosion resistance of steels for ships, and is developing materials which reduce life cycle cost (LCC) while also ensuring safety and security.



Tanker using corrosion resistant steel



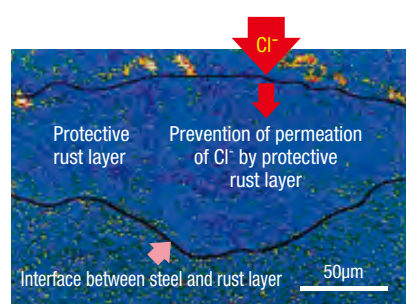
Protection mechanism of corrosion resistant steel for coal carrier

Corrosion Resistant Steel for Bridges & Steel Structures

The steel structure represented by steel bridges is important infrastructure. JFE Steel develops steel materials for LCC reduction in infrastructures and the global application technologies.



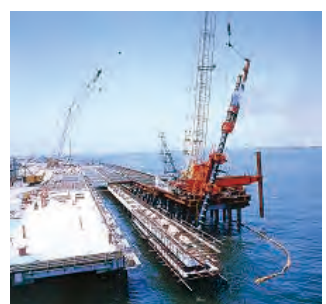
Appearance of bridge using weathering steel developed by JFE Steel



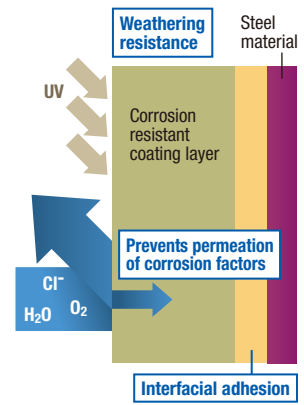
Cl mapping of cross section of protective rust layer of weathering steel by EPMA

Corrosion Protection by Organic Coatings

Ports and harbor steel structures, gas pipes, water pipes are used under severe corrosive environments. JFE Steel is committed to the development of corrosion protection technology by organic coatings to bring these to long-term reliability and economic efficiency and environmental harmony.



Pier made of heavy duty coated steel pipe piles



Mechanism of corrosion protection by organic coatings

Challenging Diverse Corrosion Environments

Various technological innovations have resulted in new corrosion environments. JFE Steel is developing new corrosion resistant steels with high economy and reliability by using state-of-the-art corrosion evaluation and reproduction technologies to clarify the mechanism of corrosion by corrosive substances.

