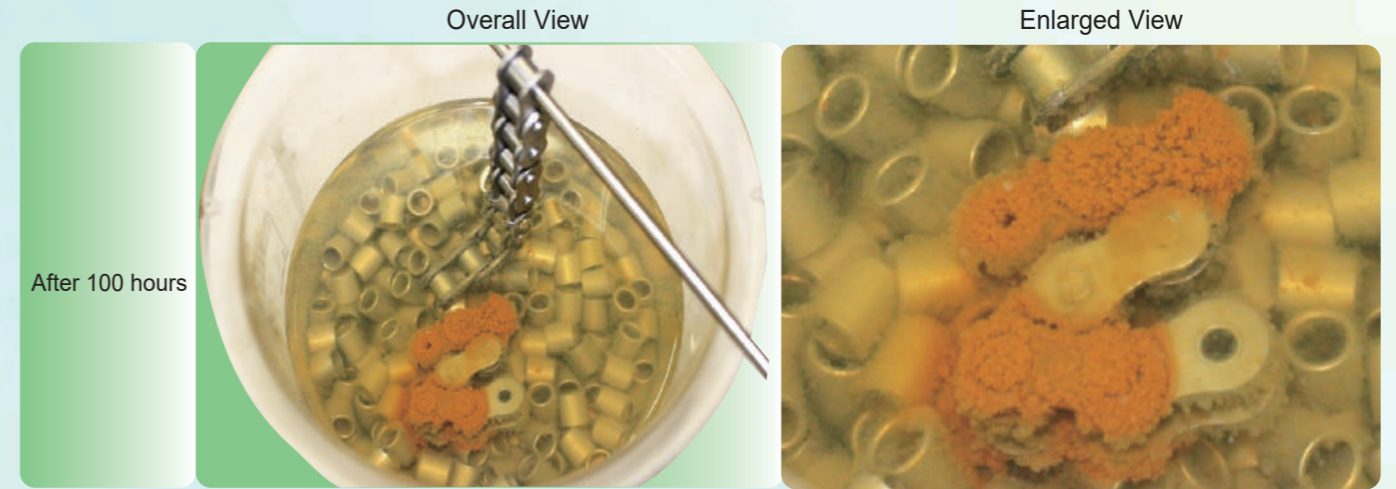
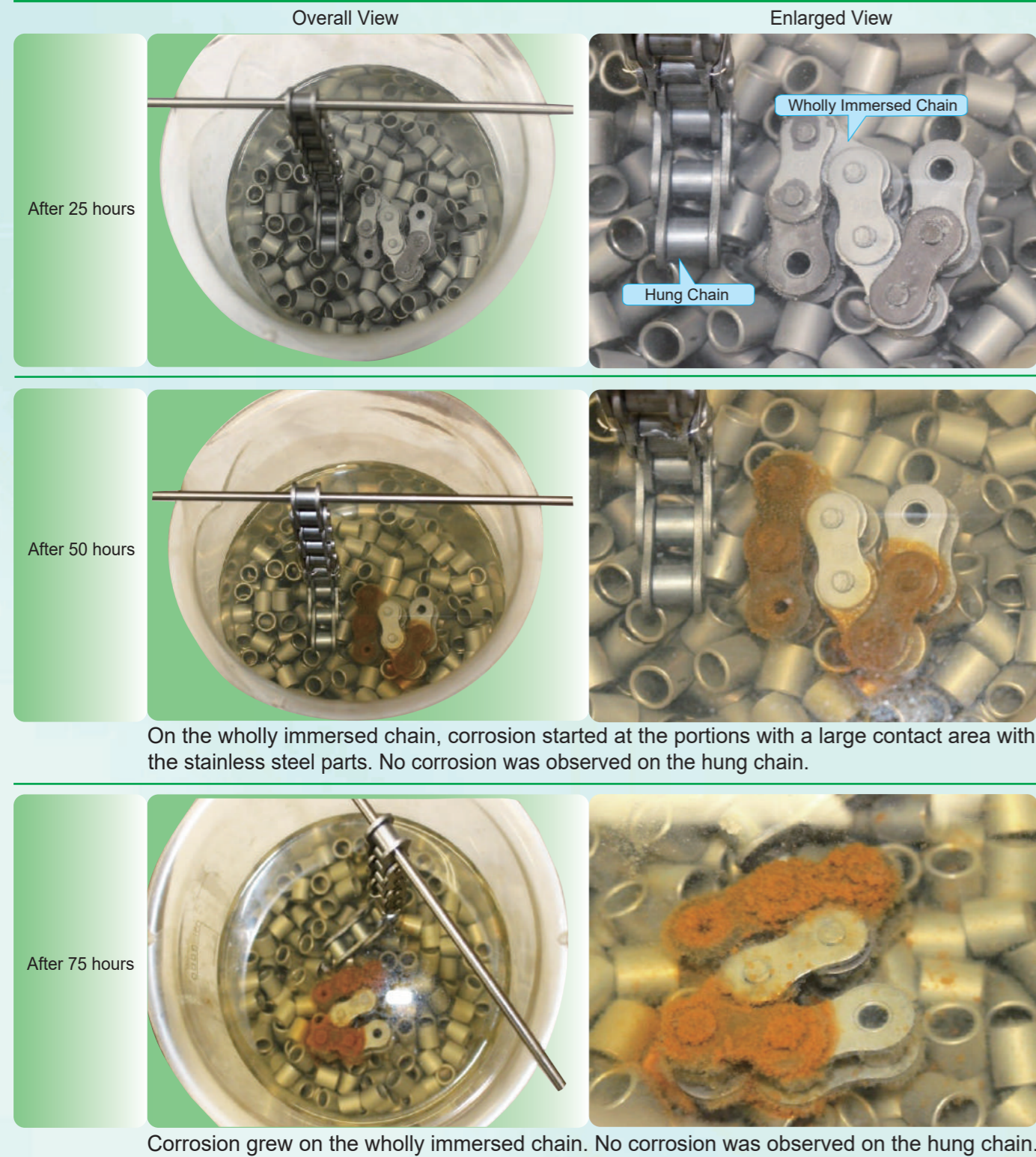


# What is Electrical Corrosion?

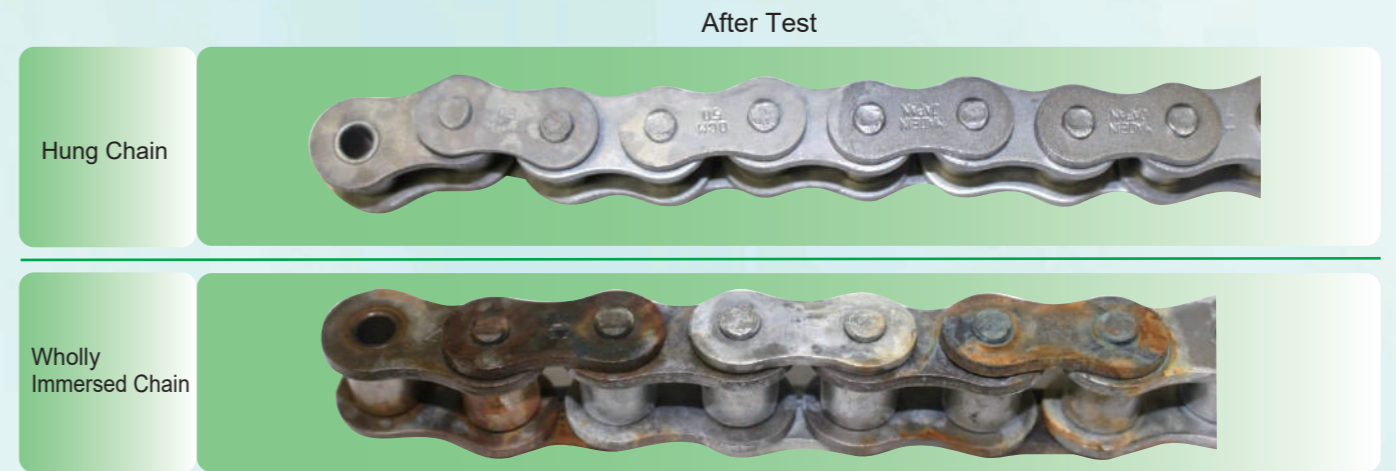
When two metals contact with each other come in contact with water or vapor in the atmosphere, the metal with the higher ionization tendency corrodes due to a potential difference between these metals. This is called "Electrical Corrosion." As the difference in the ion tendency increases, the corrosion rate increases.

## Internal Test Results

Stainless steel chain rollers were placed in beakers filled with a 5% sodium chloride solution. Two TLH chains were prepared. One TLH chain was immersed wholly in the solution, and the other was hung so that one-fourth of the chain length was immersed in the solution.



The solution became cloudy due to corrosion on the wholly immersed chain. No corrosion was observed on the hung chain.



In the wholly immersed chain, electric current flew through the portions with a large contact area with the stainless steel parts, causing the TLH chain, which has excellent corrosion resistance, to corrode quickly.

## CAUTION:

Avoid as much as possible using a TLH chain together with a stainless steel sprocket. Depending on the use conditions, electrical corrosion caused by contact with stainless steel causes the TLH chain to corrode quickly. Use a sprocket treated with TLH or other surface treatment methods. Also, do not use stainless steel in surrounding equipment as well, and apply additional surface treatment such as steel surface treatment and painting.

COMBINATIONS OF TLH CHAINS AND SPROCKETS				
	TLH TREATMENT	GALVANIZATION	PAINTING	STAINLESS STEEL
RECOMMENDED	◎	○	△	×
COST	△	○	◎	×

