July 21, 2020

Electrolytic Iron Business

News of Electrolytic Iron website renewal.

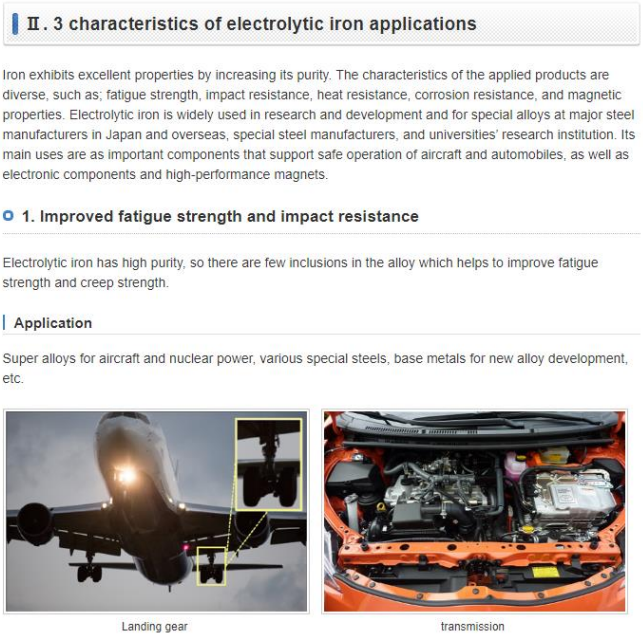
We have renewed our electrolytic iron page on our website. This page explains the characteristics and applications of electrolytic iron so that you can use it extensively.

In this renewal, we added a page the 「 characteristics and applications」 of electrolytic iron, a page the 「Let's try」 showing a video introducing the features, and a page the「Glossary Related Q & A」 briefly explaining the performance.

We will update these as needed. Please take a look.

Please access from the following address.

http://www.toho-zinc.co.jp/eng/business/electronic/iron/index.html



Ⅱ. 3 characteristics of electrolytic iron applications

Iron exhibits excellent properties by increasing its purity. The characteristics of the applied products are diverse, such as; fatigue strength, impact resistance, heat resistance, corrosion resistance, and magnetic properties. Electrolytic iron is widely used in research and development and for special alloys at major steel manufacturers in Japan and overseas, special steel manufacturers, and universities' research institution. Its main uses are as important components that support safe operation of aircraft and automobiles, as well as electronic components and high-performance magnets.

1. Improved fatigue strength and impact resistance

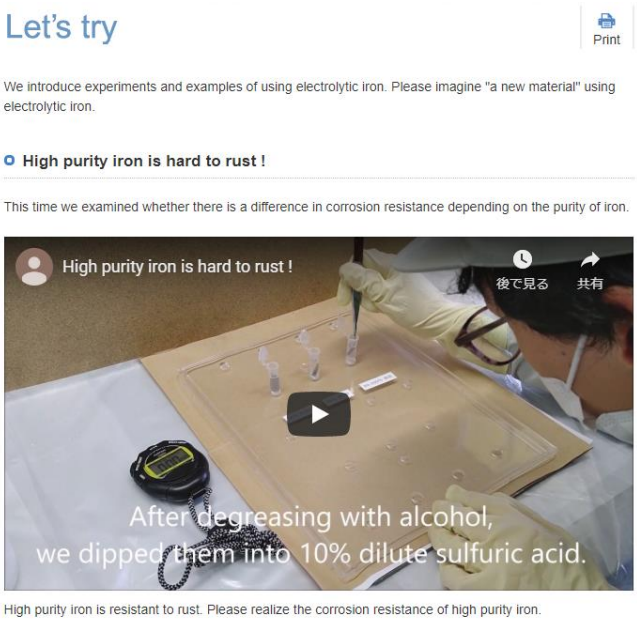
Electrolytic iron has high purity, so there are few inclusions in the alloy which helps to improve fatigue strength and creep strength.

Application

Super alloys for aircraft and nuclear power, various special steels, base metals for new alloy development, etc.

Landing gear

transmission



Let's try

Print

We introduce experiments and examples of using electrolytic iron. Please imagine "a new material" using electrolytic iron.

High purity iron is hard to rust !

This time we examined whether there is a difference in corrosion resistance depending on the purity of iron.

High purity iron is resistant to rust. Please realize the corrosion resistance of high purity iron.