Examples of New Titanium Consumer products by Coloring and Etching Technologies

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Production Technologies

* Coloring By Electrical Anodizing

* Chemical Etching

* Grain Growth Treatment
Coloring

Example of Ti Colored Products
Etching Technology
Etching Technology

GRAF ZEPPELIN CRAFT
New Development!

Titanium Foil Micro Etched Piled up Mesh

Sample of united sheet

20 Ti sheets united to one sheet

Titanium Leaf
Refined Etching Unite Mesh Sheet

100 times zoom
Grain Growth Controlling

Camouflage Pattern Finish (CPF) Panels

Sample of cell phone cover
Introduction of HORIE’s Products
Titanium Cups

Single Mugs

Colored Beer Cups

Double Wall Tumbler
Titanium ID Necklace

Titanium Pill Container

Titanium Guardian Necklace with Chinese characters

Titanium Pill Container DLC Finished
Titanium Monument & Architecture

Titanium Company Panel

Titanium Monument
Titanium Ceiling Object

Titanium Colored Wall Panel
Example Of the CPF Products

Letter Opener

Mouse Pads

Card Holder

Titanium Hair Sticks
The surface of CPF Sheet

Titanium Skin Revolution
Facial Goods

Surface Morphology

Dimension of Surface Variation
Titanium Wabi Series Beer cups & Sake cups
Titanium Parts for Motorcycle and Car

Press Processing Products

YAMAHA R1 Tale cap
Titanium Core Guard

After Parts for Ferrary
Future Product Development

* Characteristics of Ti - strong, light, non-rust, non-allergy, non-ionize, photo catalysis and good heat efficiency.

* Weak point of Ti - low thermal and electrical conductivities

* Utilize Ti's unique characteristics to develop high value products

* Clean surface is the key for utilizing Ti's unique characteristics
Future Prospects of Ti Consumer Products

* Significant progress of Ti processing technology

* Ti is still more difficult than other Metals to process

* Continued efforts on processing technology development are needed

* Ti is Ecology friendly - non-rust and compatible with human body
Thank you for your attention