

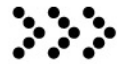


Newsletter

2016 No.03

Fabricating New Images In Aluminum Treatment

- ❖❖❖ VICTOR'S GREEN CAMPAIGN STARTS WITH
– THE WATER-MISCIBLE PAINT
- ❖❖❖ ICP-MS SYSTEM – OUR FAITHFUL QC
- ❖❖❖ TO STAY OR TO LET GO, IT'S NOT A QUESTION
– HOMOGENIZED DEGASIFICATION
- ❖❖❖ THE 7 DO'S IN KEEPING THE 5S SYSTEM ON TRACK



VICTOR'S GREEN CAMPAIGN STARTS WITH – THE WATER-MISCIBLE PAINT

Green development is a major trend in today's world. We adhere to the belief of a sustainable growth focusing on the welfare of the human beings. We take the initiative by switching to the eco-friendly paint – the engineered water miscible oil paint. The movement not only responds to the national green movement advocacy, but also offers health safeguard for front-line workers as well as consumers.

The water miscible paint is an oil paint but soluble in water instead of other chemical solutions (the thinner for instance). Compared to the traditional oil paint, the water miscible paint doesn't produce irritating odors or fumes of formaldehyde, which reduces risks in its application. The use of water solutions helps significantly cutting down resources, mitigating fire hazard during application, and reducing air pollution. On the other hand, painting tools can all be cleaned in just water, which greatly reduces consumption on cleaning solutions.

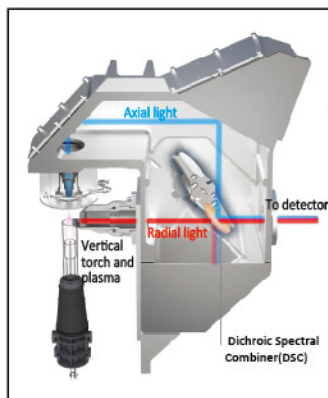
The primer of the water miscible paint picked by Victor is based on Polyacrylate Modified Water-Borne Polyurethane. This brand not only retains the intrinsic advantages of high water-proof, high weather-proof, and high application-tolerability as found in the other water-based paints, it also enhances the comprehensive property of the product in the following areas:

- Hardness:**with a pencil hardness over 2H, which satisfies day to day requirements
- Abrasion-Resistance:** equivalent of the oil-based paint if not better, also with noticeable advantages on application life span as well as flexibility in colour mix
- Chemical Property:** performance on alcohol-resistance and alkaline-resistance is enhanced

❖❖❖ ICP-MS SYSTEM – OUR FAITHFUL QC

To ensure continual production consistency of anodic oxidized products, we took the initiative by bringing in the ICP-MS System. This system is a high-end analyzer that is designed based on atomic emission spectrometry, a method of chemical analysis over wavelength characteristics of a particular atom from its excited-form back to base-form.

In today's market, anodic oxidation solutions are generally analyzed using methods of chemical titration and spectrophotometry. The latter can only be set to test one chemical solution for concentration at a time. But with the ICP-MS, we can quickly find testing results of concentration for each chemical solution all at once with higher accuracy. In addition, the using of ICP-MS also allows us to obtain results of the chemical compositions and their mix ratio of each solution. The testing results tend to be consistent and accurate, which effectively monitors the stability of the anodic solutions and the variation trend of the mix ratio. When product defects pop up, we can easily discern the cause by analyzing the change of solution mix ratio, which eventually improves the speed of corrective action on the product quality.



Synchronous Vertical Dual View (SVDV) Design



We took the lead by introducing to our production the ICP-MS that plays an important role in the efficiency in dealing with quality defects. This has laid the foundation for Victory to be a leader in the high-end aluminum surface treatment.

TO STAY OR TO LET GO, IT'S NOT A QUESTION -HOMOGENIZED DEGASIFICATION

During the casting process, the injected molten contains oxides and nitride smuts that deteriorates the malleability of the alloyed aluminum and reduces tensile strength of the casted parts. Therefore, homogenized degasification is very much desired. By blowing gas into the casting chamber, or injecting mixing-agent into the liquefied alloy to cause chemical reaction, it generates hydrogen-free bubbles. These bubbles are used to absorb hydrogen and attract oxide smut when they move up till they rise to the surface of the molten so that degasification and removal of smuts can now be fulfilled.

The Degasser utilized at Victory is a stationary rotary motor device equipped with a hydraulic lifting system, which effectively reduces gases and smuts from casting parts and improves the inherent quality of finished products.

winning features:

- 1.The use of a graphite motor running in high speed to reach 1500r/min for degassing.
- 2.Designed with switchable modes of auto-reset and auto-injection of the homogenizing agent.
- 3.The degassing agents are made of 99.996% pure argon-gas or nitrogen-gas.
- 4.Tested by the Hydrogen-Sulfide Monitor, the degassing rate reaches about 65% inside the holding crucible, which qualifies as Grade I in China.

❖❖❖ THE 7 DO'S IN KEEPING THE 5S SYSTEM ON TRACK

5S system has been around for years, but hasn't gained its momentum ideally in many companies, as seen in instances like that the plan for implementation was originally prescribed, but as time passing by, was found to be still in square one. Victor believes that 5S should not be viewed as a one-session treatment, but an exercise that once it's picked up, it should never be dropped.

Throughout years of practice, we have adopted the 7 do's to keep the system on track:



1. **A Top-down Commitment** – the fundamental that warrants a successful implementation.
2. **Sense of participation by everyone** – to create a favourable ambience for collective participation and boost the power of implementation.
3. **Keep the idea fresh off the oven** – to host theme-oriented functions regularly to keep the employees fully engaged.
4. **Share and Review** – to arrange weekly meetings and put forward motions for improvement.



5. **Recognition vs. Responsibility** – through “Star-Track” performance review, to hand over the tie of recognition and responsibility directly to each employee so everyone is in the driver seat for their performance.

6. **System-formation** – to cultivate a system-driven workplace habit – pragmatic experiences must be standardized before it can benefit others.

7. **Performance Review** – the other side of the coin – besides a good initiative from the employees, the management has its duty to keep the worksite under effective supervision; each department should also include performance review on its regular and incessant mandate.



It is a persistent challenge to follow through something beyond its starting point, which applies to the implementation of the 5S system. Nevertheless, we are confident to uphold our belief in weaving the 5S system into the company's culture to enhance the standard of the company and improve workplace efficiency.

COMPANY PROFILE

Our company was founded in year 2000. Being a company specialized in sophisticated alloyed aluminum fabrication and high-end surface treatment, JM Victor is not only refined with hands-on experiences through years of accumulation through the sector chain of precision manufacture, but also with unparalleled wealth of knowledge enriched from company operation and management process, which enables the company to offer solutions in overcoming design and production bottlenecks in high-end aluminum fabrication.

In Jiangmen High-Tech Industrial Park, we have invested in construction of our new cyber-physical powered Smart Plant embracing the core Industry 4.0 design concept. The new plant, residing on an area of 100,000 square metres, comprising a global lab of aluminum-magnesium surface treatment and a smart CNC fab centre with its own casting house and stamping workshop, will add on a new chapter of consummate expertise to the venture of JM Victor.

Our Mission Statement

We stand by our commitment to share the harvest and happiness with our staff and workers, create value for our customers and cultivate a company culture with a vision. This is the foundation for the sustainability and continuity of our company and our business.



Guangdong Victor Aluminum Co.,Ltd.

Address: No.11 Jinhui Road,High-Tech Development Zone,Jiangmen,Guangdong,China.

Tel: 0750-3869777

www.victoralu.com

Email: contactus@victoralu.com

Facebook/Twitter: Victor Aluminum

* All contents and pictures hereby published, as well as copyright thereof, are properties of Victor Aluminum