

To whom it may concern;

## **Super Coating NANOTECH<sup>®</sup> adopted by UAE's ADNOC Group**

**Takenaka Seisakusho Co., Ltd., Osaka, Japan with its president Saeko Takenaka (Takenaka) and GSI Creos Corporation, Tokyo, Japan with its president Tadaaki Yoshinaga (GSI Creos) announced that ADNOC Gas Processing (ADNOC GP), a major company of ADNOC (Abu Dhabi National Oil Company), adopted TME's super coating, NANOTECH<sup>®</sup> as a surface treatment for metallic parts such as steel fasteners in their five huge plants, RUWAIS, HABSHAN (including Habshan 0, Habshan 1, Habshan 2, Habshan 3 and Habshan 4), HABSHAN-5, BU HASA and ASAB.**

NANOTECH<sup>®</sup> is the “super” coating system based on well advanced dispersion and paint formulation technology by Takenaka and it is reinforced by Carbon Nanotubes (CNTs) of GSI Creos as well-known as the most important material in Nano-technology.

In addition to its remarkable mechanical properties such as wear and impact resistance contributed by CNTs, it boasts phenomenal performance such as the industry's highest level of anti-corrosive function, over 4,000 hours in Salt Spray Tests, thanks to highly protective barrier from corrosive factors.

This surface treatment was already standardized in Japanese Industrial Standards (JIS) as a “carbon nanotube composite resin coating film” in 2016. This is the first JIS standardization using CNTs as industrial products.

TME was jointly established by Japanese industrial global companies, Takenaka Seisakusho and GSI Creos Corporation in 2016, supported by Ras Al Khaimah Economic Zone (RAKEZ), a government entity of Ras Al Khaimah. TME has been supplying their world highest surface coating technology to the region.

In recent years, ADNOC Group has conducted field tests on NANOTECH<sup>®</sup> surface-treated steel fasteners at their plants located in harsh environments. And four years field test has been successfully completed.

ADNOC GP Technical Evaluation Endorsement Team (TEET) concluded that NANOTECH<sup>®</sup> coating should be approved and adopted as one of highest quality coatings in terms of corrosion protection, maintainability and re-usage, besides TAKECOAT-1000 coating which was already approved and adopted by ADNOC. At the same time, ADNOC GP TEET strongly recommended that NANOTECH<sup>®</sup> coating should be used in the atmospheric corrosive environment, more specifically in the sulfur dust containing environment, and update ADNOC GP specification according to be a part of recommended list of products.

This ADNOC GP announcement means TME is now ready to contribute NANOTECH<sup>®</sup> in addition to TAKENAKA's 30 years' ADNOC approved and adopted products, TAKECOAT-1000 coating system to ADNOC Group.

At this great occasion, TME will expand their sales activity of NANOTECH<sup>®</sup> surface treatment for any metallic parts in oil and gas plants located in similar harsh environments throughout GCC and MENA countries. Through these activities, Takenaka and GSI Creos Groups will promote initiatives for ultra-long-term maintenance of structures and contribute to reducing the environmental burden as for realizing a sustainable society.

### **<Contact>**

- Takenaka Seisakusho Co., Ltd. General Affairs Division
- GSI Creos Corporation Corporate planning Department

TEL: +81-6-6789-1555

TEL: +81-3-5211-1802