

LABORATORY SERVICE THAI PARKER TECHNOLOGY CENTER

As the leading company in surface and heat treatment business, Thai Parkerizing has established Thai Parker Technology Center since 1994 as the research and development center providing the technical support to our valued customers and Joint Venture companies in South East Asia, India and Pakistan through chemical and metallurgical specialists, high performance technology of modern chemical and material analysis instruments.

Consecutively developing capabilities of our laboratory, we always expand scope of analysis and testing in both chemical and metallurgical fields to completely satisfy all customer needs with rapid and reliable data report.

Surface and Metallurgical Analysis

With state-of-the-art instrumentation through expert Metallurgists, we provide convincing metallurgical data to support customer troubleshooting



> Glow Discharge Spectrometer (GDS) > Electron Probe Micro Analyzer (EPMA)



> X-ray Diffractometer (XRD) > X-ray Photoelectron Spectrometer (XPS)



Chemical composition
Microstructure
Surface and failure
Mapping analysis
Depth profile



> X-ray Fluorescence Spectrometer (XRF) > Scanning Electron Microscope & Energy Dispersive Spectrometer (SEM&EDS)

In addition to fulfill other demands in metallurgical field, we also offer various techniques to clarify thickness of coating layers (Cross section, X-ray test, Calo test), Hardness (HRC, Hmv), Roughness, Friction coefficient, Wear resistance and Adhesion properties.

Chemical Analysis

To ensure the quality of water, chemical products and raw materials, we provide comprehensive chemical analysis through professional verification with modern inorganic and organic instruments.

Inorganic Field



> Ion Chromatography (IC) >> Identify and quantify anion constituent
> UV-Visible Spectrometer >> Absorption technique >> Quantify chemical solution
> Capillary Electrophoresis (CE) >> Identify and quantify both cation and anion



Qualitative analysis
Quantitative analysis
> Inductively Coupled Plasma Spectrometer (ICP)
>> Identify and quantify metal contents in wide range of materials and chemical solution

Organic Field



> Total Organic Carbon Analyzer (TOC) >> Determine carbon contents
> Fourier Transform Infrared Spectrophotometer (FT-IR) >> Identify functional group of organic compounds

Environmental Analysis

Hazardous Substance Analysis

Accredited in ISO/IEC 17025:2005 as testing laboratory focusing on the determination of Pb, Cd, Cr(VI) contents in surface treatment products, we offer reliable data of SoC and RoHS analysis for chemical products.



NCS-TISI-TIS 17025
Testing 0296
THAI PARKERIZING CO., LTD.

Wastewater Analysis

Expanding in environmental field, we are striving towards being accredited by DIW as water analysis laboratory concerned with wastewater parameters as follows

- pH
- BOD
- COD
- Cyanide
- TDS & SS
- Oil & Grease
- Heavy metal
- Temperature



กรมโรงงานอุตสาหกรรม
DEPARTMENT OF INDUSTRIAL WORKS

Zinc Phosphate Standard Panel

In order to serve all customer requirement to perform the corrosion resistance test and paint evaluation following automotive and other industrial standards, we provide the professional service to prepare standard phosphating panel by customer materials or Parker group standard materials.

Morphology of Zinc Phosphate crystal coated on standard panels



> SPCC > SPGA



Corrosion Resistance Test

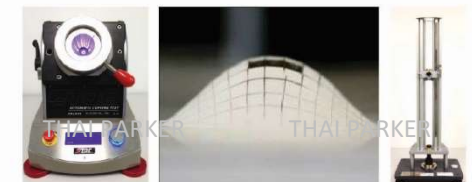
With simulated corrosive conditions, we offer corrosion resistance testing such as Salt Spray Test according to JIS-Z2371 and ASTM B117 standards, CASS Test following ASTM B368-09, Combined Cyclic Corrosion Test and etc.



> Combined Cyclic Corrosion Tester (CCT) > Salt Spray Tester (SST) > Samples after SST

Paint Evaluation

We provide paint evaluation based on customer standard by various types of equipment such as Square cutting, Impact tester, Hardness tester and Erichsen tester.



> Erichsen Tester > Impact Tester