

EMIRATES PETROCHEMICAL SERVICES EST.



OILFIELD CONTRACTOR



**EPS PROMISES TO REMAIN THE  
EASY CHOICE FOR YOUR TOUGH PROJECT**



## Chairman's Message

EPS, a major oil field contractor and pioneering organization in the UAE, is a name to be reckoned within the oil circles and is synonymous with technical advance and quality industrial services.

Over the past two decades, EPS has successfully executed highly technical contracts in the field of civil, mechanical & electrical engineering for the Abu Dhabi Oil & Gas Industry, especially offshore and onshore. With a battery of sophisticated equipment and committed workforce, EPS continues to expand its activities and improve its expertise by adopting modern techniques and methodologies and by updating its personnel to enhance the quality of its business prowess.

EPS' major operations involves sourcing, procurement, supplies of engineered goods and installation as well as maintenance contract services, executed by skilled personnel and spearheaded by highly qualified engineers, using state of the art equipment. EPS' prime objective is to offer smooth service and effective resources in order to achieve maximum efficiency at minimum risk within the stipulated deadline.

It gives me much pleasure to be associated with EPS and I am confident we will go a long way by remaining the easy choice for tough projects.

Awn Hassan Al-Aidarous  
CHAIRMAN

## POLICY STATEMENT ON HEALTH SAFETY & ENVIRONMENTAL (HSE)

EPS management decision to adopt an HSE system to provide professional guidelines for management as commitment to enhance the business performance and social responsibility of the company to meet the satisfaction of clients and the community at large.

To ensure that these concerns are addressed fully, EPS have adopted the guiding principles of ISO 14000 in HSE Standards, together with those of Quality Assurance in ISO 9000 standards.

EPS is committed to provide products and services that give client satisfaction and at the same time are performed with due regard to health, safety and the environment.

## CORPORATE QUALITY STATEMENT

EPS Quality System defines the organization, practices and procedures which are in line with the guidelines stipulated in ISO 9000 Standard.

In order to further enhance our relationship with customers EPS management have adopted the principles of BS EN ISO 9002 of 2000 in order to ascertain that Quality Assurance is achieved in the provision of our services and products to the full satisfaction of our clients.

Over the past decades EPS has successfully executed satisfactorily several Industrial contracts for the Oil, Gas & Petrochemical Industries.

EPS is presently enrolled with Institute of Quality Assurance & being assured by the Third Party towards the achievement of ISO 9002 : 2000 awards.



## Quality Policy Statement

All **EMIRATES PETROCHEMICAL SERVICES** employees are guided by **EMIRATES PETROCHEMICAL SERVICES** Quality Policy in all decisions and actions on daily basis. Our goal is to provide the following:

- \* A product and service solution which meets our customer's expectation.
- \* A highly trustworthy and ethical work environment that provides long-term employment, development, and growth for all employees.
- \* Continual improvement in all that we perform.

The **EMIRATES PETROCHEMICAL SERVICES** management realizes that success in the future depends upon achieving these goals by:

- \* Promoting a work ethic which is predicated upon quality, health, safety and environment.
- \* Providing all employees with the training and tools necessary to perform their job in the most efficient and effective manner possible.
- \* Providing the necessary resources and personal support required for successful implementation of ISO 9001:2015 Quality Management System and Quality Objectives.

**EMIRATES PETROCHEMICAL SERVICES** will not compromise the integrity of our services in an attempt to satisfy short-term goals. We are committed to long term growth, profitability and employment for our personnel and will achieve this by utilizing a business approach that takes into account the needs of all our stakeholders (e.g. employees, partners, suppliers, customers and the environment) and which encompasses an attitude of "Quality First".

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**Managing Director**



## HSE Policy Statement

**EMIRATES PETROCHEMICAL SERVICES** Management is fully committed towards achieving excellence by reducing waste, prevention of pollution and ensuring the safety of employees, clients, visitors and community at large.

**The Management and Staff of EMIRATES PETROCHEMICAL SERVICES are committed to:**

- Processing the waste materials by adopting good and safe waste management practices,
- Operating at all times in all areas in an environmentally friendly manner,
- Ensuring occupational health and safety in all areas at all times,
- Reducing waste and preventing pollution,
- Continually Training and Improving Competency of staff,
- Complying with all legal & regulatory requirements,
- Complying with national and international standards that we subscribe to.

**These commitments will be achieved by:**

- Establishing and maintaining a documented Health, Safety and Environmental Management System (HSE) that will meet International standards.
- Ensuring procedures, programs and guidelines are in place to support the HSE.
- Providing the necessary resources for the implementation of the HSE.
- Communicating the Company's HSE policy and Objectives to relevant parties including its employees and Clients.
- Ensuring Line Management commitments to the HSE.

  
**Managing Director**  
10/0/17



## Quality Policy Statement

All **EMIRATES PETROCHEMICAL SERVICES & SCAFFOLDING ESTABLISHMENT** employees are guided by **EMIRATES PETROCHEMICAL SERVICES & SCAFFOLDING ESTABLISHMENT** Quality Policy in all decisions and actions on daily basis. Our goal is to provide the following:

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Managing Director  
19/3/17



## **HSE Policy Statement**

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**Managing Director**



**EPS GROUP OF COMPANIES**

**EPS UK Ltd.**

**LONDON, U.K.**

**EPS MIDDLE EAST**

**ABUDHABI,  
MUSAFFAH &  
GHAYATHI**

**Emirates Petrochemicals Services - EPS** Major Operations involves sourcing, procurement, supplies of Engineered Goods and installation as well as maintenance contract services executed by skilled personnel and spearheaded by highly qualified Engineers using state of the art equipment.

**EPS** prime objective is to offer smooth service and effective resources in order to achieve maximum efficiency at minimum risk within the stipulated deadline.

**Emirates Petrochemicals Services - EPS** was founded in 1981 to offer the Petrochemical, Oil, Gas and Process Industries a comprehensive service tailored to their particular requirements.

With our Main offices located in Abu Dhabi and our association with several specialized companies in the field of Engineering and Manufacturing we are able to offer a range of services and products which conform to the highest standards demanded by prospective clients whilst fully appreciating local conditions both geographic and economic.

**ASSOCIATES**

## 1. **Petro6 ENGINEERING & CONSTRUCTION PVT LTD**

(Petro6 E&C) - Chennai is a private limited company incorporated under laws of India, providing independent as well as dedicated conceptual, basic, detailed engineering and procurement services in Oil and Gas, Refineries and Jetties.

Petro6 E&C is strongly backed by its promoters who have aggregate experience of over 20 years in Oil and Gas field, both in offshore and onshore. The team leaders come from different multinational design firms, operating companies and EPCIC contractors.

Petro6 blends the strengths and reputation of its owners to provide its customers low cost value added design, engineering and procurement services with highest degree of quality.

Some of the Petro6 E&C clients are as follows:

- Petronas Charigali ( Hong Kong ) Myanmar Limited (PCML),
- Brunei Shell Petroleum (BSP),
- Cairn Energy India Pty Ltd (CEIL)
- Hindustan Oil Exploration Company Ltd (HOEC)

Please visit [www.petro6ec.com](http://www.petro6ec.com) for further details.

2. **Ramo Industries**, established in 2007, stepped in as a Plant and Maintenance contractor and moved on to become an EPC contractor for Fine Chemical Plant in Jurong Island, Singapore.

Ramo Industries is currently emerging with “Complete Value Engineering Solutions” for Petrochemical, Oil & Gas and Ship Building Industries as an EPC Contractor.

Business volume of Ramo has consistently increased and currently executing projects with a contract value over SGD 100 Million.

# **EPS IN HOUSE CAPABILITIES**

**EPS** is currently providing support services for the following:

Installation, Testing and Commissioning of

- Static Equipment
- Rotating Equipment
- Electrical & Instrumentation
- Fire and Gas

**EPS** provides assistance for Mechanical Completion, Pre-commissioning and Commissioning Activities such as

- Bolt Tightening / Joint Integrity Testing,
- Hydro Testing
- Air Blowing
- Drying
- Nitrogen purging / flushing
- Chemical Cleaning
- Lube Oil Flushing
- Nitrogen Helium Leak Testing / Flange Management

**EPS** executes Installation, Maintenance and Repair Contracts of **Industrial Insulation** such as Thermal, Acoustic, Fire Resistant and Anti Condensation for Oil, Gas and Petro Chemical Industry.

# EPS OFFERS:-



**Heat Exchanger**



**Pipe Line services**



**Field workforce supply**



**Pipe line Rehabilitation.**

**Painting&Blasting**



**Scaffolding Services**





# EPS assists in Mechanical Completion, Pre- commissioning and Commissioning which includes:-



- Nitrogen Purging/ Flushing
- Lube Oil Flushing
- Chemical Cleaning
- Hydro Testing
- Hydro Blasting(upto 30,000 PSI)
- Air Blowing
- Drying
- Nitrogen Helium Leak Testing.
- Bolting Services/ Joint Integrity.
- Cold Cutting Services

# SERVICES:-

Installation, Testing and Commissioning



- ❑ Static Equipments
- ❑ Rotating Equipments
- ❑ Fire and Gas System.
- ❑ Electrical and Instrumentation.

# Industrial Insulation & Rehabilitation works

- ❑ Installation, Maintenance and Repair Contracts of Industrial Insulation such as **Thermal Acoustic, Fire resistant & Anti Condensation** for Oil, Gas & Petrochemical Industry.
- ❑ **Pipeline Rehabilitation** works by external adhesive coating which increases the life of pipeline by mechanical strengthening and anti-corrosion properties.
- ❑ **Abrasive Blasting & Protective Coating** done by skilled team in compliance with industry standards like **AWWA, SSPC & NACE**.
- ❑ **A complete in-house Workshop facility** including machine tools, Painting Bay, Overhead Cranes to carry our maintenance activities for Oil & Gas industry.



# Tank Cleaning & Refractory Works

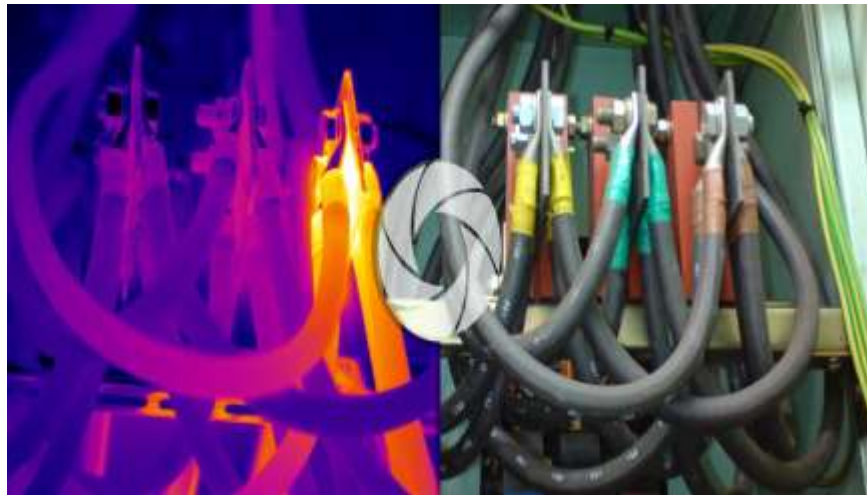


- ❑ **Tank Cleaning Inspection & Maintenance** with high pressure **water jetting units**, **vacuum tankers**, **sludge pumps testing equipment**.
- ❑ **On Line High Pressure Leak Sealing** activities upto steam 400 degree c, Acids and Hydrocarbons and Gases upto 3000 Psi.
- ❑ **Complete Refractory System** package in accordance to ISO standards. It includes refractory installation & maintenance, mechanical & other boiler repair services.
- ❑ **Access Scaffolding** for projects in accordance with BS Standards, strict quality control, cost effective, fast erection & dismantling to meet schedule- scaffolders with **CITB Certificates**.



# Heat Exchangers, Fire Proofing, Thermographic Survey.

- Heat Exchanger Refurbishment.
- Chemical Cleaning
- Water Jetting
- Mechanical Cleaning



- Fireproofing for Structured Steel using intumescent/ Cementitious Products.
- Thermographic Survey could be done for industries such as electrical, switchgears, transformers, capacitors, Motor windings, & Thermal, Reactor refractory etc.

## **Field work Support Staffing.**



- Mechanical Technicians
- 3G Welders
- Fitter
- Fabricator
- Insulator
- Helper
- Certified bolting  
Technicians
- Cold cutting Technicians
- Riggers
- Scaffolders
- HVAC Technicians
- Skilled Sand Blasters
- Skilled Painters

**EPS** has undertaken Pipeline Rehabilitation Work extending the life of existing Pipeline without need for replacement by external coating which gives additional Mechanical strength as well protecting from corrosion.

**EPS** has constructed complete Workshop Facilities for Oil & Gas Industry to carryout day to day maintenance activities. Equipment installed include Machine Tools, Painting Bay, Overhead Cranes, etc.,

**EPS** has capability to perform **Hydro blasting** with high pressure water jetting – pressures up to 30,000 PSI

**EPS** has successfully completed **Fireproofing** for Structural Steel using Intumescent / Cementitious Products in Oil & Gas environment (brown field).

**EPS** can provide **Access Scaffolding** for Projects in accordance with BS Standards, strict quality control, cost effective, fast erection & dismantling to meet schedule – scaffolders with CITB certificates.

**Refractory Systems** - **EPS** provides refractory systems with complete refractory package in accordance ISO standards – personnel having extensive experience with refractory installation and maintenance, mechanical and other boiler repair services.

**EPS** has successfully performed **Heat Exchanger Maintenance** covering the following activities:-

- Refurbishment
- Chemical Cleaning
- Water Jetting
- Mechanical Cleaning

**Abrasive Blasting & Protective Coating** - **EPS** provides services ranging from surface preparations to selection of coating material and installation, including performance guarantee to meet customer specifications and requirements. Skilled Team of applicators undertaking execution of work in compliance with industry standards like AWWA, SSPC & NACE are available.

**Tank Cleaning, Inspection & Maintenance** – **EPS** has full range of equipment including high – pressure water jetting units, vacuum tankers, sludge pumps and testing equipment.

Tank Maintenance Package consists of:-

Cleaning, Inspection (Tank bottom mapping, welds, roof seals and appurtenances), Composition repairs and replacement as determined by inspection, Testing (Hydro test – X-ray – Vacuum) and coating replacement and renewal.



**On Line High Pressure Leak Sealing** capabilities include experienced & highly trained operators to perform activities on Steam 400°C, Acids and Hydrocarbons & Gases up to 3000 PSI.

**Thermographic Survey** could be performed by **EPS** for a wide range of industry application such as Electrical Switchgears, Transformers, Capacitors, Motor Windings & Terminals, Reactor refractory etc.,

# **SUPPLY DIVISION**

**EPS – Supply Division** is capable of sourcing the materials required for any type of Projects in Oil, Gas & Petrochemical Industry through its worldwide network and offices in Europe at competitive rates – with assured delivery schedule and expediting.

Following are some of the materials which can be sourced based on previous experience:

1. Mechanical Spares Sourced From Europe  
Structural Steel Materials
2. Pipes: All Types, Pipe Supports, Valves
3. Pipe Fittings: Flanges, Elbows Unions – All, Bars & Rods – Ferrous
4. Stud Bolts & Nuts, Fittings, Flanges / Gaskets
5. Line Pipes, Pipe Coatings & Tapes
6. Painting, Insulation & Cladding, Blasting / Grit Materials
7. Cathodic Protection Material & Cathodic Protection Systems
8. Welding Electrodes & Other Accessories
9. Aluminium Corrugated Sheets
10. Scaffolding Materials
11. General Refractory/Insulation Materials & Accessories
12. Refractory – Blankets, Castable, Ceramic, Ferrules, Tiles, Bricks

13. Chemical Absorbants, Antifoam, Water Biocides
14. Catalyst – Cracking, Dehydrogenation, Hydro cracking, Mercox Unit
15. Chemicals: Cooling System, Corrosion & Scale Inhibitors, Asphaltene / Paraffin Inhibitors, Crude Demulsifier, Gasolene Dyes
16. Hardness Stabilizers - Water Softeners
17. Jet Fuel – Additives / Antioxidant / Antistatic
18. Electrical Spares Sourced From Europe
19. Solar Energy Systems
20. Fiber Optic Cables
21. L.V. Power & Control Cables, H.V. / M.V. Cables
22. Instrument & Communication Cables
23. Cable Glands, Cable Trays / Metal & Fiber Glass
24. Diesel Generating Sets
25. Flood Light Fittings, Street Lighting Poles / Fittings
26. Hazardous Area Light Fittings
27. Junction Boxes
28. Fire Extinguishers
29. PPE / Safety Equipment / Overall

# SUPPLY DIVISION

Related Company	Related Company Name	P.G. Assessment Grade	Agency Associate Link	Product Group	PG Description
503307	BALSAN INTERNATIONAL	R	R	PG - 170020	MECHANICAL SPARES SOURCERS FROM EUROPEAN COUNTRIES
		R		PG - 174035	PIPE COATINGS AND TAPES
		R		PG -174045	WELDING ELECTRODES & OTHER ACCESSORIES
		R		PG - 180005	PIPES: ALL TYPES - SUPPLIERS
		R		PG - 290020	ELECTRICAL SPARES SOURCERS FROM EUROPE-GENERAL
504998	ROCKWOOL LAPINUS	R	R	PG - 188030	REFRACTORY/INSULATION MATERIALS AND ACCESSORIES
505081	STEPHEN & CARTER	R	A	PG - 190035	ALUMINIUM CORRUGATED SHEETS
		R		PG - 190040	SCAFFOLDING MATERIALS
505083	ACCESS NECG ENG	R	R	PG - 190040	SCAFFOLDING MATERIALS
506304	M,H. DETRICKS CO, LTD	R	R	PG - 188005	REFRACTORY - BLANKETS
		R		PG - 188010	REFRACTORY - CASTABLE
		R		PG - 188015	REFRACTORY - CERAMIC FERRULES
		R		PG - 188020	REFRACTORY - TILES
		R		PG - 188025	REFRACTORY -BRICKS
		R		PG -188030	REFRACTORY I INSULATION MATERIALS AND ACCESSORIES

# SUPPLY DIVISION

Related Company	Related Company Name	P.G. Assessment Grade	Agency Associate Link	Product Group	PG Description
508290	TEAMCO INTERNATIONAL LTD	R	R	PG - 280525	CATHODIC PROTECTION SYSTEMS
508300	RUTGERS VFT AG.	R	A	PG - 410005	ABSORBANTS
		R	A	PG - 410015	ANTIFOAM
		R		PG - 410020	WATER BIOCIDES
		R		PG - 410035	CATALYST - CRACKING
		R		PG - 410040	CATALYST - DEHYDROGENATION
		R		PG - 410045	CATALYST - HYDROCRACKING
		R		PG - 410060	CATALYST - MEROX UNIT
		R		PG - 410075	CHEMICALS: COOLING SYSTEM
		R		PG - 410080	CORROSION & SCALE INHIBITORS
		R		PG - 410085	ASPHALTENE/PARAFFIN INHIBITORS
		R		PG - 410095	CRUDE DEMULSIFIER

# SUPPLY DIVISION

Related Company	Related Company Name	P.G. Assessment Grade	Agency Associate Link	Product Group	PG Description
508300	RUTGERS VFT AG.	R		PG - 410100	GASOLENE DYES (RED, BLUE, GREEN ETC.
		R		PG - 410105	HARDNESS STABILIZERS - WATER SOFTENERS
		R		PG - 410110	JET FUEL ADDITIVES/ANTIOXIDANT/ANTISTATIC
		R		PG - 410165	OTHER CHEMICALS/CLEANERS CATALYSTS
511066	A.P.GREEN REFRACTORIES LTD.	R	R	PG - 188005	REFRACTORY - BLANKETS
		R		PG - 188010	REFRACTORY - CASTABLE
		R		PG - 188015	REFRACTORY - CERAMIC FERRULES
		R		PG - 188020	REFRACTORY - TILES
		R	R	PG - 188020	REFRACTORY - TILES
		R		PG - 188025	REFRACTORY -BRICKS
		R		PG - 188030	REFRACTORY I INSULATION MATERIALS AND ACCESSORIES
511067	C C GAS SYSTEMS	R		PG - 316015	METERS I RECORDERS AND SPARES ·ALL

# SUPPLY DIVISION

Related Company	Related Company Name	P.G. Assessment Grade	Agency Associate Link	Product Group	PG Description
511410	DUCAST FACTORY LLC.	R	R	PG -180005	PIPES: ALL TYPES· SUPPLIERS
		R		PG -180015	PIPE FITTINGS: FLANGES, ELBOWS UNIONS - ALL
		R		PG - 190005	BARS AND RODS - FERROUS
		R		PG - 190040	SCAFFOLDING MATERIALS
900546	AIMS CAPITAL CORPORATION	R	R	PG -124010	CRANES ALL TYPES· SPARES
		R		PG - 128005	PROCESS FILTERS & ACCESSORIES • ALL SUPPLIERS
		R		PG - 128020	COOLING TOWERS/RADIATORS & SPARES
		R		PG - 128050	INSTRUMENT AIR DRYERS - SPARES
		R		PG -128055	POWER TRANSMISSION COUPLINGS- SPARES
		R		PG - 134010	PUMPS - COMPONENTS & SPARES - ALL
		R		PG -142005	TURBINES - BLADES, COMPONENTS AND SPARES
		R		PG - 144010	CRANES - TOWER & SPARES



# SUPPLY DIVISION

Related Company	Related Company Name	P.G. Assessment Grade	Agency Associate Link	Product Group	PG Description
900546	AIMS CAPITAL CORPORATION	R		PG - 150005	BOILERS ALL TYPES - SPARES SUPPLIER
		R		PG - 154005	COMPRESSORS ALL TYPES - SPARES SUPPLIERS
		R		PG - 156005	SEA WATER SKIMMING/OIL SEALING SYSTEM - SPARES
		R		PG - 170010	MECHANICAL SPARES SOURCERS FROM USA
		R		PG - 390010	INSTRUMENTATION MATERIAL
900656	THERMAL CERAMICS LTD	R	R	PG - 188005	REFRACTORY - BLANKETS
		R		PG - 188010	REFRACTORY - CASTABLE
		R		PG - 188015	REFRACTORY - CERAMIC FERRULES
		R		PG - 188020	REFRACTORY - TILES
		R		PG - 188030	REFRACTORY /INSULATION MATERIALS AND ACCESSORIES
		R		PG - 412030	FIRE BLANKETS
		R		PG - 412080	FIRE PROTECTIVE MATERIALS/CHEMICALS

# SUPPLY DIVISION

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900546	AIMS CAPITAL CORPORATION	R		PG - 412080	FIRE PROTECTIVE MATERIALS/CHEMICALS
900657	THERMICA LTD	R	R	PG - 188030	REFRACTORY /INSULATION MATERIALS AND ACCESSORIES
		R		PG - 412010	FIRE HYDRANTS & MONITORS
		R		PG - 412080	FIRE PROTECTIVE MATERIALS/CHEMICALS
		R		PG - 412505	FIRE FIGHTING & SAFETY EQUIPMENT
		R		PG - 412505	FIRE FIGHTING & SAFETY EQUIPMENT
900663	VENTURE TAPE	R	R	PG - 174035	PIPE COATINGS AND TAPES
901931	CARBOCHEM INC.	R	R	PG - 410025	CATALYST - ACTIVATED (CARBON/ALUMINA)
901960	PIONEER CHEMICAL.INC	R	R	PG - 410015	ANTIFOAM
		R		PG - 410070	CATALYST - SUPPORT (ALUMINABALS)
		R		PG - 410080	CORROSION & SCALE INHIBITORS
		R		PG - 410145	SULPHURIC ACID

# SUPPLY DIVISION

Related Company	Related Company Name	P.G. Assessment Grade	Agency Associate Link	Product Group	PG Description
901931	CARBOCHEM INC.	R		PG - 410165	OTHER CHEMICALS/ CLEANERS / CATALYSTS
901961	BLASTRITE G.U.L.F	R	R	PG - 408026	SAND BLASTING MATERIAL GRIT/GARNET
901962	EP LABORATORIES LTD.	R	R	PG - 174070	CLEANING PRODUCTS & CHEMICALS
		R		PG - 410165	OTHER CHEMICALS/ CLEANERS / CATALYSTS

## LEGEND CODE DEFINITIONS

### AGENCY LINKS

E: Exclusive with Ministry of Economy Certificate - Single Source.

A: Agency Agreement endorsed by the UAE Embassy in home country of Manufacturer(Multi Source)

R: Representative with letter/Fax of appointment(Multi Source)

## ZRC Galvilite® Galvanizing Repair Compound

ZRC's Galvilite provides all the corrosion protection you've come to expect from the world's most specified galvanizing repair compound—in a silvery finish that closely matches the color of galvanized metal.

### Enjoy the following great benefits with ZRC's Galvilite:

- 95% zinc in the dry film using only Type III "ultra pure" ASTM-D-520 zinc (lead and cadmium free)
- Recognized under the Component Program of Underwriters Laboratories, Inc. as equivalent to hot dip galvanizing
- Meets and exceeds Fed. Spec. DOD-P-21035A (Galvanizing Repair Spec); MIL-P-26915A (USAF Zinc Dust Primer); ASTM Des. A-780 (Standard Practice for Repair of Damaged Hot-Dip Galvanized Coatings); SSPC-Paint 20 (Specification for Zinc-Rich Primer)
- Passes 3,000 hours salt spray testing without failure (ASTM Des. B117)
- Passes 9-year subtropical testing
- Low VOC approved in all 50 states
- ISO 9001 registration assures the highest quality consistently

For specification assistance, application assistance, test reports and product selection please contact our customer support at (800) 831-3275 or our website [www.zrcworldwide.com](http://www.zrcworldwide.com).



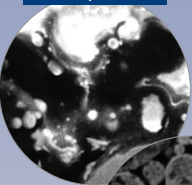
### APPLICATIONS

Repairing hot-dip galvanizing  
Field applied galvanizing  
Rust proofing welds  
Repairing inorganic zinc  
Regalvanizing of worn hot-dip  
Metal fabrication  
Construction  
Manufacturing/OEM  
Antenna Towers  
Petrochemical Plants  
Roads & Bridges  
Tanks  
Industrial Maintenance  
Water Treatment  
Marine & Offshore  
Cooling Towers  
Hundreds more!

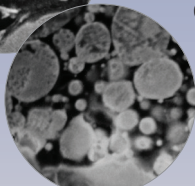
## THE ZRC GALVILITE DIFFERENCE

The ZRC Galvilite difference is made possible by Galvilite's high zinc content (95% by weight in the dried film) of "ultra pure" (ASTM D 520 Type III) zinc dust, ensuring that more metallic zinc is available for superior galvanic protection against corrosion. This high purity zinc dust is compounded with a tenacious non-encapsulating binder using a highly controlled trade secret process in our state-of-the-art manufacturing facility.

#### Competitor



The result is a self-healing galvanic film that does not require sand-blasting for most applications, providing both up-front labor savings and extended longevity of corrosion protection. We offer a Certificate of Compliance to these exacting material standards and a copy of our most recent ISO Registration Certificate.



#### ZRC

#### The Proof is in the Photos

These scanning electron microscope photos illustrate the difference between the true galvanic protection of ZRC Galvilite and a competitor's low percentage zinc coating.

## TESTING & SPECIFICATION CONFORMANCE DATA

- Meets and exceeds Fed. Spec. DOD-P-21035A, formerly MIL-P-21035 (Galvanizing Repair Spec.)
- Meets and exceeds Fed. Spec. MIL-P-26915A (USAD Zinc Dust Primer)
- Passes 3,000 hours salt spray testing without failure\*\* (ASTM Des. B117)
- Passes Preece Test (ASTM Des. A239) for hot-dip galvanizing
- Resists intermittent dry-heat temperatures up to 750°F
- Meets and exceeds ASTM Des. A-780 (Standard Practice for Repair of Damaged Hot-Dip Galvanized Coatings)
- Meets and exceeds SSPC-Paint 20 (Specification for Zinc-Rich Primer), Type II (organic), Level I, Type III zinc dust

## AVAILABILITY/COST

Immediately available off the shelf, Galvilite Galvanizing Compound is offered directly from the manufacturer, or through a worldwide distribution network. The initial cost of Galvilite is more than offset by substantial maintenance savings and the increased service life of protected surfaces. Galvilite is available in 3.5 gallon pails, gallon cans, quart cans, and a convenient 12 oz. aerosol spray. Contact ZRC Worldwide for current pricing and further information.

## MATERIALS/FINISHES

A unique formulation of 95% pure zinc metal as a liquid coating, ZRC Galvanizing Compound and Galvilite are manufactured to exacting standards in our own state-of-the-art manufacturing facility. Galvilite's silvery metallic finish closely approximates the look of new hot-dip galvanizing. Standard ZRC Galvanizing Compound is light matte gray in color.

## SUGGESTED SPECIFICATION

Silvery-finish Galvanic Zinc-Rich coating containing 95% metallic zinc, by weight in the dried film; recognized under the Component Program of Underwriters Laboratories, Inc. as an equivalent to hot-dip galvanizing; as manufactured by ZRC Worldwide, Marshfield, MA ([www.zrcworldwide.com](http://www.zrcworldwide.com)) or other facility having been registered to the International Organization for Standardization ISO 9001 standard for quality.

For areas and industries with more stringent VOC restrictions specify ZRC 221.

\*\* Copy of reports available upon request



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## Technical Data

<b>TYPE</b>	Single pack, premixed, ready to apply, liquid organic zinc compound
<b>THEORETICAL COVERAGE</b>	400 ft <sup>2</sup> /gal @ 1.5 mil dry film thickness
<b>METALLIC ZINC CONTENT</b>	95% by weight in dry film
<b>FLASH POINT</b>	111°F (44°C) (SETA method, ASTM D3278)
<b>VOC CONTENT</b>	3.3 lbs/gal (385 gms/ltr) (ASTM D3960)
<b>WEIGHT PER GALLON</b>	24 lbs. (ASTM D1475)
<b>SOLIDS CONTENT</b>	86% (by weight)/52% (by volume)
<b>VISCOSITY</b>	2500 cps. Brookfield spindle #5 @ 100 RPM, @ 25°C
<b>MAXIMUM SERVICE TEMP - Intermittent</b>	750°F (399)°C
<b>MAXIMUM SERVICE TEMP - Constant</b>	350°F (177)°C
<b>ELECTRICAL CONDUCTIVITY</b>	73 million ohms per square @ 3 mils dry (resistivity)
<b>IMPACT RESISTANCE</b>	Greater than 30 inch-lbs. (extrusion) per ASTM-D2794
<b>ABRASION RESISTANCE</b>	11.5 liters per dry mil (tested @ 3 dry mils) per ASTM-D98-51
<b>POT LIFE</b>	At least 24 hrs. @ 77°F (25°C)
<b>PACKAGING</b>	3.5 gallon pails, gallon, quart, and aerosol cans
<b>DRY TIME</b>	Set to touch. When ambient air dried, 20-30 minutes
<b>RECOAT TIME</b>	(Second coat) After 12 hrs. Under certain conditions, recoat time can be reduced. Contact manufacturer for specifics.
<b>TOPCOATING</b>	After 24-48 hrs., topcoat with acrylic, epoxy, urethane or vinyl type products. DO NOT USE alkyd, alkyd-modified acrylic, or lacquer type products. Consult our Guide to Topcoating for detailed instructions.

## Surface Preparation

Dependant upon surface condition and intended service. Typical examples include:

<b>GREASE &amp; OILS</b>	Solvent clean to SSPC-SP1
<b>RUST SCALE</b>	Power tool clean to SSPC-SP11
<b>MILL SCALE</b>	Sandblast to SSPC-SP6 (commercial)
<b>WATER IMMERSION</b>	(100°F maximum) Sandblast to SSPC-SP10 (near-white)

## Application

<b>BRUSH/ROLLER/AEROSOL</b>	Apply as received in container
<b>SPRAY (low pressure compressor type)</b>	
Atomized air pressure	50 lbs/in <sup>2</sup> = 3.5 kg/cm <sup>2</sup>
Fluid pressure	15-20 lbs/in <sup>2</sup> = 1.1-1.4 kg/cm <sup>2</sup>
Orifice of tip	0.080 inches (0.20 cm)
Viscosity reduction	4:1 GALVILITE:XXX Thinner -OR- 16:1 GALVILITE:Xylol/Xylene
<b>SPRAY (airless type)</b>	
Pump	30:1
Hose	1/2" (1.3 cm) (I.D.)
Orifice of tip	60°-0.026 inches (0.07 cm)
Type of tip	Tungsten carbide, reversing
Filter screens	Complete removal is recommended. However, if screens are employed, use no less than 30 mesh.
Viscosity	No reduction required
Recommended procedure	Connect hose directly to pump, without filter assembly, ensuring a hose length of 50 ft. max. Use in-pot agitator or continuous recycling. Use least pressure possible. Start at 1500 lbs/in <sup>2</sup> = 105 kg/cm <sup>2</sup> and increase as required for good spraying.
<b>CLEAN UP</b>	ZRC XXX Thinner* or Xylol/Xylene

\* XXX Thinner is our special solvent.



ZRC Worldwide has been registered to the International Organization for Standardization ISO 9000 Series Standards for Quality. The fact that ZRC is registered to ISO 9001 assures our customers that the zinc-rich coatings manufactured in our facility are designed and manufactured according to the most stringent quality control standards, so you can rely on their consistency.

## Superior zinc coating technology for the protection of iron and steel.

Zinc based coating products on the market that claim to provide rust protection are generally zinc rich paints that at best act as expensive barrier coatings. They do not provide the electro-chemical galvanic action which is the key to corrosion protection. To function anodically, the zinc particles must be in intimate contact with one another so that the film itself is conductive. Also the binder material must be such that it does not insulate the zinc particles from each other or from the base substrate (steel or iron) inhibiting galvanic action.

This is achieved in the ZRC cold galvanizing compounds by the high zinc loading (95% by weight in the dry film) and proprietary binder. ZRC Cold Galvanizing products have been around for more than 50 years and are the only coatings that have been certified by the Underwriters Laboratories as an equivalent of hot dip galvanizing. Major projects around the world such as the 'Peace Bridge' over the Niagra River in N. America and the Aomori Cement Plant in Japan are proof of the trust and respect for ZRC cold galvanizing compounds.

ZRC Cold Galvanizing compounds can be applied via dipping, spraying or brushing and, best of all, this can be done at the factory or job site. This is not possible with hot dip galvanizing. A gallon of ZRC Cold Galvanizing Compound will provide one coat of approximately 1.5 mil dry film over 400 square feet of surface. Two coats are recommended for optimal protection. ZRC coatings meet or exceed recognized VOC standards. ZRC compounds have been formulated to tolerate the rigors of short and long distance shipping and will not settle out and compact. They can be easily stirred back into full dispersion.

### ZRC® Cold Galvanizing Compound



- Fifty years of proven success
- Equivalent to hot-dip galvanizing
- Single-component - Battleship gray finish
- Apply by brush, roller or spray
- Meets VOC standards
- Available in clog-free aerosol form



### ZRC® Galvilité Galvanizing Repair Compound



- Designed specifically for field and shop repair of hot dip galvanizing
- Silver finish
- Industry-leading 95% zinc in the dried film
- Single-component
- Apply by brush, roller or spray
- Meets VOC standards



### ZRC® 221 Cold Galvanizing Compound



- Newest innovation in zinc rich technology
- Same superior performance as ZRC Cold Galvanizing Compound
- Over 40% lower in volatile organic compounds
- Lowest VOC zinc rich compound available



### ZRC® Zero-VOC Galvanizing Compound



- Contains no volatile organic compounds
- Combines best features of organic and inorganic zincs
- Convenient one-coat system
- Easily cleans up with water
- Meets VOC standards



A Liquiguard® Technologies, Inc. Company

## ADVANTAGES OF USING ZRC IN PLACE OF HOT-DIP GALVANIZING

ZRC is the only cold galvanizing compound on the market that is ISO 9001 registered and recognized by the Underwriter's Laboratories' Component Testing Program as equivalent of hot-dip. Because of the advantages it offers over hot-dip galvanizing it is widely accepted by architects and engineers.

### ADVANTAGES:

- More impact resistant than hot-dip
- Galvanizes and primes in one easy coat
- Eliminates hot-dip embrittlement & warpage
- Will not clog threads - eliminates re-tapping
- No "flaking" and separating when bent
- No costly transportation or down time
- Can be applied before or after fabrication
- Better job quality control and no size limitation

### TEMP. TOLERANCE:

#### INTERMITTENT

750°F (399°C) - ZRC & Galvilitite

1700°F (927°C) - Zero VOC

#### CONTINUOUS

350°F (177°C) - ZRC & Galvilitite

1200°F (694°C) - Zero VOC

## SPECIFICATIONS THAT ZRC MEETS

1. ZRC meets and exceeds Fed. Spec. DOD-P-21035A, the Department of Defense galvanizing repair spec
2. ZRC meets and exceeds Military Specification MIL-P-26915A, the USAF zinc-dust spec.
3. ZRC may be used under Military Specification MIL-P-26433 for tower protection – temperature and arctic.
4. ZRC passed the Preece Test ASTM Des A239 for hot dip galvanizing.
5. ZRC passes 3,000 hours of salt spray testing without failure (ASTM-B117-73).
6. ZRC resists intermittent dry-heat temperatures up to 750°F.
7. ZRC meets and exceeds Canadian Government Spec. 1-GP-181A for hot dip repair.
8. ZRC meets and exceeds ASTM Des. A-780 (Standard Practice for Repair of Damaged Hot Dip Galvanized Coatings).
9. ZRC compound is authorized for food contact under federal regulation 21 CFR 175.390 for use as a coating on bulk re-usable containers intended for storing, handling and transporting food.
10. ZRC compound is recognized under the Component Program of Underwriters' Laboratories, Inc. MH7035, and is retested by U.L. every year.
11. ZRC compound is chemically accepted by the US Dept. of Agriculture. It may be used in processing or storage areas for meat or poultry food products prepared under federal inspection.
12. ZRC meets and exceeds SSPC-Paint 20 (Specification for Zinc-Rich Primers).
13. ZRC meets and exceeds SSPC-Paint 29 (Specification for Zinc Dust Sacrificial Primer, Performance based).

# **HIRE DIVISION**



# CONSTRUCTION EQUIPMENT AVAILABLE FOR HIRE

## MOBILE EQUIPMENTS

S.N.	DESCRIPTION	MANUFACTURER MODEL / YEAR
<b>A</b>	<b>CRANES, ALL TERRAIN HYDRAULIC</b>	
A.1	- 35 Tonnes Crane (All Terrain)	Tadano/Groove/Catterpillar - YEAR 2010 & ABOVE
A.2	- 50 Tonnes Crane (All Terrain)	Tadano/Groove/Catterpillar - YEAR 2010 & ABOVE
A.3	- 65 Tonnes Crane (All Terrain)	Tadano/Groove/Catterpillar - YEAR 2010 & ABOVE
A.4	- 70 Tonnes Crane (All Terrain)	Tadano/Groove/Catterpillar - YEAR 2010 & ABOVE
A.5	- 80 Tonnes Crane (All Terrain)	Tadano/Groove/Catterpillar - YEAR 2010 & ABOVE
A.6	- 90 Tonnes Crane (All Terrain)	Tadano/Groove/Catterpillar - YEAR 2010 & ABOVE
A.7	- 120 Tonnes Crane (All Terrain)	Tadano/Groove/Catterpillar - YEAR 2010 & ABOVE
A.8	- 150 Tonnes Crane (All Terrain)	Tadano/Groove/Catterpillar - YEAR 2010 & ABOVE
A.9	- 180 Tonnes Crane (All Terrain)	Tadano/Groove/Catterpillar - YEAR 2010 & ABOVE
A.10	- 200 Tonnes Crane (All Terrain)	Tadano/Groove/Catterpillar - YEAR 2010 & ABOVE
<b>B</b>	<b>FORKLIFT, (ROUGH TERRAIN) WITH OPERATOR</b>	
B.1	-3 Tonnes Hydraulic Forklift	Caterpillar, Hyundai, Komatsu, Toyota - YEAR 2010 & ABOVE
B.2	- 4 Tonnes Hydraulic Forklift	Caterpillar, Hyundai, Komatsu, Toyota - YEAR 2010 & ABOVE
B.3	- 5 Tonnes Hydraulic Forklift	Caterpillar, Hyundai, Komatsu, Toyota - YEAR 2010 & ABOVE
<b>C</b>	<b>FLAT BED FOR LOW BED TRAILERS WITH OPERATOR</b>	
C.1	- 30 Tonnes	Volvo, Mercedes - YEAR 2010 & ABOVE
C.2	- 15 Tonnes	Volvo, Mercedes - YEAR 2010 & ABOVE

## WIRE SLINGS

S.N.	DESCRIPTION	LENGTH	DIA.	EYES	EST. QTY
					A
1	With Stainless Steel Ferrules and certified to British Factories act 1961 Construction (Lifting) Regulations UK 1961 and Shipbuilding and Repairing Regulation 1960 (UK)	6m	26mm	457mm	8
2		4m	26mm	457mm	8
3		6m	22mm	305mm	8
4		4m	22mm	305mm	8
5		6m	13mm	305mm	16
6		4m	13mm	305mm	12
7		2m	13mm	305mm	12
8		1m	13mm	305mm	12

## SHACKLES

Item	Description	Specification				Working		EST. QTY
		Swlton	Def / Bow	Thickness	Pin Dia	Depth	Width	A
1	GROSBY	10	BOW G209	1 1/4"	1 3/8"	4 11/16"	2 1/32"	8
2		8		1"	1 1/8"	3 3/4"	3 3/4"	8
3		5		7/8"	1"	3 5/16"	1 7/16"	16
4		3		5/8"	3/4"	2 3/8"	1 1/16"	20
5		1		3/8"	7/16"	1 7/16"	21/32"	20

# LIST OF CLIENTS

