公司简介

上海宝钢管材有限公司是一家专业从事石油专用管材内防腐涂层加工的中外合资企业，是世界石油工业集团旗下的核心企业之一。公司成立于2002年3月，位于上海宝山月浦工业园区，地理位置优越，水陆交通便利。公司的经营范围包括碳钢、不锈钢和热浸镀锌管的防腐层加工与产品销售。

公司首先通过了ISO9001：2000质量体系认证，国际权威机构FStemry Proctor集团的NS-14认证，涂层产品还得到中国石油天然气集团公司管材装备部以及国外权威机构的实验认可，荣获上海市高新技术企业和外商投资先进技术企业的称号。

自投产以来，公司产品销往各大油田，占据了国内市场的主导地位。公司先后投资、合资的公司包括：江苏宝钢管材加工有限公司、上海宝钢管材有限公司。公司荣誉有：国家石油天然气质量奖、全国用户满意企业、全国用户满意服务十优企业、全国用户满意产品、全国用户满意服务企业。

公司始终坚持诚信为本，科学管理，科技创新，诚信务实和开拓创新的经营理念，以质量、技术和信誉为依托。公司以技术创新和市场份额为核心竞争力，不断完善管理，提升服务质量，为客户提供优质的产品和服务。

Company Brief

Shanghai Tube-Cote Petroleum Pipe Coating Co., Ltd. is a joint venture company, which is one of the core production enterprises affiliated to Hilong Group of Companies. The company was set up in March 2002, with its location at Yuepu Industrial Zone, Baoshan District, Shanghai, China. It is close to Shanghai Baoshan Industrial base and Shanghai Harbor, thus enjoying great geographical advantages of road and sea transportation.

The business scope of the company mainly covers internal coating, hardbanding and related products and services for drill pipe, tubing, casing, and pipe line, serving for all major oil companies, petroleum service companies, oil pipe producers and the constructions of oil piping domestically and internationally.

The company has been certified by ISO 9001:2000 quality system and NS-14 level 2 facility audit, and been nominated with Shanghai Hi-Tech Enterprise and Hi-Tech Foreign Investment Enterprise. Its products have also been testified by Tubular Research Institute of CNPC as well as some international prestige institutes.

The company has taken up a majority of domestic coating market. Its coating products have also been widely used by all companies of more than 40 countries all over the world. With the establishment of its subsidiaries one by one, the company is becoming a leading coating enterprise in the field of industry.

The company strives to be the forefront on developing scientific management and operation. Based on high quality, high technologies and close proximity to Baosteel and Grant Prideco China and Hilong Drill Pipe, the company will continue to create more and more achievements to benefit its clients and customers.
资质证书 Qualification & Certificate
质量控制 Quality Control System

公司注重产品质量，力求客户满意。产品质量从原料入厂、生产加工、包装运输直至售后服务等各环节都得到了充分有力的保障。公司制定了完善的质量管理体系，并建立了全面的质量检测实验和工厂实验体系。公司实施的质量方针是：质量至上、持续改进、交付准时、顾客满意。

The Company motto is QUALITY FIRST. An operating system is in place from the arrival of raw materials through production, packing, and transportation to serve the customers. The Company has set up the complete quality control system, laboratory inspection and workshop testing system with its quality principle as: Quality First, Customer Satisfaction, Good After-sales Service, and Delivery on time.

研究开发 Research & Development

公司产品得到了西安钢管研究所及国外权威机构的实验认可，并与国内知名高校进行合作实验。

The Company and its products have attained the quality certificates from domestic and international authority institutes, like Tubular Goods Research Center of CNPC, Fearnley Froster Group of UK, etc. It has also conducted tests and inspections with some famous colleges and universities cooperatively.

质量目标 Quality Target:

- 准时交付率 Delivery rate=100%。
- 出厂合格率 Acc pass rate=100%。
- 客户满意程度 Customer satisfactory degree >95分

- 干膜厚度检测 Dry Film Thickness Test
- 薄膜检测 Holiday Inspection
- 锚点检测 Anchor Profile Detect
- 测量HB硬度 Measuring HB Height
工艺流程 Work Process Flow

公司的全套设备均从国外进口，设备的设计与制造处于目前世界领先地位。设备增加了以前的效率和安全性，降低了生产成本。同时由于采取了精确的管理，减少了生产过程中各个环节的经济投入，保证了经济效益。

在新型化工工艺上，涂装设备完全替代了传统的喷涂，使涂装系统中的各个环节不必在空气中有段，便可以实现自动化。这种大大减少了环保中空气的污染，保证了涂装质量，同时也提高了生产效率。

在选用设备时，特别要求引入了新设备，阻挡了喷砂灰尘进入管道或化学溶液中，提高了喷砂与管道、喷砂与设备的结合度，使得表面的附着力大大提高。

The Company imported the latest equipment from overseas. The design of the equipment and the layout of the plant is the most update in the industry. The continuous flow of the pipeline through the entire blasting and coating process has enabled a quality process to be tightly controlled and achieve the quality specifications.

In the final baking and curing process of the coating, the pipe with well coating do not stay too long in the open area, so dust does not get into the pipe. The production efficiency can also be improved.

Blasting and coating station is separated by a wall, which will prevent dust from the blasting station into the coating station.
Why to Use Coating?

- Improve flow rate
- Reduce paraffin build up on pipe
- Reduce scale build up on pipe
- Improve recovery rates
- Eliminate fishing jobs
- Corrosion control

涂层的性能检测结果
Performance Test Results of the Coatings

高温压井实验
HTHP Test

压平破坏实验
Flattening Test

高温压井试验后
表面颜色无明显变化
均未发现涂层变软、膨胀和气泡
After high temperature and high pressure test
Color does not notably change
Coating does not soften, no bulge or any air bubble

拉伸实验
Tensile Test

扭矩实验
Torque Test

拉伸实验后无明显变化
No structural change after tensile test

扭矩实验后无涂层变化
No structural change after torque test
**Products Introduction**

The company coating production line adopts the most update technology, which can apply TC coating series developed by Hilong. The hardbanding production line can apply BoTn series of wires also developed by Hilong. The coating and hardbanding products are competitive in the world market, which is in a leading position in the field of industry.

### Main Products

- **Drill pipe coating**: 2 3/8” - 6 5/8”
- **Tubing coating**: 2 3/8” - 4 1/2”
- **Casing coating**: 4 1/2” - 16”
- **Line pipe**: 2 3/8” - 16”
- **Hardbanding**

### The Properties and Application of Tubing, Casing and Line Pipe Coating

<table>
<thead>
<tr>
<th>Properties</th>
<th>Recommended for</th>
</tr>
</thead>
</table>
| *Type: Liquid epoxy modified phenolic* | *High pressure system*
| *Applied thickness: 5.9mil(150-225um)* | *Salt water system*
| *Temperature: Up to 400℃* | *Oil, gas and water transporting pipeline*
| *Pressure: Up to yield strength of pipe* | *Casing injection system with corrosive medium*
| *Corrosion resistant* | *Chemical industry and production vessels*

### Main Products of Hardbanding

<table>
<thead>
<tr>
<th>Product</th>
<th>Casing Wear Comparison</th>
<th>Casing Wear Friction Comparison</th>
<th>Friction Factor Comparison</th>
<th>Hardbanding Wear Resistance Comparison</th>
</tr>
</thead>
<tbody>
<tr>
<td>BoTn-1000</td>
<td>9.00</td>
<td>2.31</td>
<td>0.46</td>
<td>0.017</td>
</tr>
<tr>
<td>BoTn-3000</td>
<td>11.00</td>
<td>2.45</td>
<td>0.58</td>
<td>0.0057</td>
</tr>
</tbody>
</table>

### Main Application Scope of Products

- **Drill Pipe**
- **HIVDP**
- **Drill Collar**
- **Centralizer**
- **Absorber**
- **Sucker Rod Coupling & Sucker Rod**
- **Other industrial fields of chemical, electricity and electromechanical, etc.**
<table>
<thead>
<tr>
<th>Product Name</th>
<th>Product Properties</th>
<th>Anti-Abraision Internal Coating for Drill Pipe</th>
<th>Coating Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC200B</td>
<td>Liquid Modified Epoxy-Phenolic coating, which can be used in wider ranges of temperature and PH conditions: It has good property of anti-corrosion and pit corrosion control, suitable for application in various drilling mud; It has good performance of abrasion Resistant; It has good performance of mechanical resistance, and the coating keeps good after repeated use; It can improve flow rate, reducing pumping pressure and abrasion.</td>
<td>浅黄色 (shallow yellow)</td>
<td>TC200B (浅黄色/shallow yellow)</td>
</tr>
<tr>
<td>TC200A</td>
<td>Liquid Modified Epoxy-Phenolic coating, which can be used in wider ranges of temperature and PH conditions: It has good property of anti-corrosion and pit corrosion control, suitable for application in various drilling mud; It has good performance of mechanical resistance, and the coating keeps good after repeated use; It can improve flow rate, reducing pumping pressure and abrasion.</td>
<td>浅绿色 (light green)</td>
<td>TC200A (浅绿色/light green)</td>
</tr>
<tr>
<td>TC200S</td>
<td>Liquid Modified Epoxy-Phenolic coating, which can be used in wider ranges of temperature and PH conditions: It has good property of anti-corrosion and pit corrosion control, suitable for application in various drilling mud; It has good performance of mechanical resistance, and the coating keeps good after repeated use; It can improve flow rate, reducing pumping pressure and abrasion.</td>
<td>浅绿色 (light green)</td>
<td>TC200S (浅绿色/light green)</td>
</tr>
</tbody>
</table>
# Products List

<table>
<thead>
<tr>
<th>Products</th>
<th>Properties</th>
<th>Coating Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC3000A</td>
<td>Green</td>
<td>High Performance Internal Coating Material</td>
</tr>
<tr>
<td>TC3000B</td>
<td>Gray/Gray</td>
<td>Scale &amp; Paraffin Resistance Internal Coating Material</td>
</tr>
<tr>
<td>TC3000C</td>
<td>Green/Gray</td>
<td>H2S &amp; CO2 Resistance Internal Coating Material</td>
</tr>
<tr>
<td>TC3000D</td>
<td>Yellow</td>
<td>Epoxy Phenolic Coating Material for Diving Water Transportation System</td>
</tr>
<tr>
<td>TC3000E</td>
<td>Black</td>
<td>Epoxy Phenolic Coating Material, applicable to all diving water system pipe line coating</td>
</tr>
</tbody>
</table>

- **TC3000A**: A modified epoxy-phenolic coating material, applicable to internal coating of water injection well tubing and casing. It has outstanding anti-corrosion property in acid (12%HCl33%H2F) injection well tubing.
- **TC3000B**: An internal coating material applicable to all tubing, casing and line pipe. It has outstanding property of anti-corrosion, scale resistance, paraffin resistance and pitch resistance. It can endure higher application temperature (<100°C).
- **TC3000C**: An internal coating material applicable to all tubing, casing and line pipe. It has excellent property of anti-corrosion, abrasion resistance, anti-corrosion, scale resistance, paraffin resistance and pitch resistance. It has very good property of acid proof, applicable to natural gas wells containing H2S & CO2, and gas injection systems for oil extraction and mixed oil.
- **TC3000D**: A modified Epoxy Phenolic coating material, applicable to all steel pipes and storage tank. It can be used in the normal temperature, having good property of chemical resistance and anti-corrosion and helping prolong the application life of the pipe.
- **TC3000E**: A modified Epoxy Phenolic coating material, applicable to all diving water system pipe line coating. It can be used in the normal temperature, having good property of chemical resistance and anti-corrosion and helping prolong the application life of the pipe.
市场分布  Sales & Marketing

DOMESTIC

公司建立了辐射国内外的营销网络。国内各油田以及江苏瑞信、浙江、上海宝钢等钢铁生产厂商均与我公司保持着良好的合作关系。我们服务于每个客户在国内外油田的开发与建设。公司始终坚持以用户为中心，产品以质量为本，服务于国内外市场。我们赢得了广大用户的充分信任，赢得了市场的认可。公司真诚希望与广大用户保持更加紧密的联系与合作，努力促进可持续发展的双赢共同体。

INTERNATIONAL

The Company has set up a world-wide marketing network. In China, its clients include almost all oil fields of CNPC, SINOPEC and CNOOC. Baosteel Group, Giant Priddle China and other oil companies. Our Products have also been widely used in many world oil fields and oil companies. We are strenuously expanding our services and products to the domestic and international markets. Our primary objective is to satisfy the customer through low cost, high technology and quality products. Through this objective we will gain customer confidence and meet future challenges and thus creating a Win-Win partnership.