山东峰宝工业铝型材科技有限公司
SHANDONG FENGBAO INDUSTRIAL ALUMINIUM MATERIAL TECHNOLOGY CO., LTD.

邹平 • 中国
ZOUPING • CHINA
 COMPANY INTRODUCTION

Founded in 2008, Shandong Fengbao Industrial Aluminium Material Technology Co., Ltd. is located in Zouping Industrial Zone, Shandong Province, which is only 45 miles away from Jinan International Airport. With five million USD registered fund, our revenue reached 150 million USD in 2017. Adopting CONFORM extrusion technology, we mainly manufacture micro-channel flat tube which can be used for vehicle condensors, radiators and air conditioners. Equipped with six aluminium furnaces, we can produce 70000 tons aluminium slabs, billets and ingots annually. We have passed the ISO9001:2015 Quality Management System and IATF16949:2016 Quality Management System. Since its foundation, we have established a complete sales network and after-sales service support system in 30 province. Our products are also sold to more than 20 countries and regions of the world and are highly appreciated by our customers.

With the business philosophy of "excellent technology, stable quality, sincere service to customers, and common growth with customers", we insist on promoting enterprise development with scientific and technological innovation, consolidating customer resources to meet market demands, and improving enterprise quality by continuously improving design and service. We are willing to cooperate sincerely with the majority of users, advance together and seek common development.

 COMPANY CULTURE

Operation Philosophy of the Enterprise

Quality Philosophy: Quality is the starting point of the value and dignity of Fengbao;
R&D Philosophy: Market demand is the fundamental direction and pointer for the RD of Fengbao;
Manufacturing Philosophy: Pursuing industry specialization and product diversification;
Talent Philosophy: Talent is the core competence for enterprise development.

Core Values of Enterprise

Sincerity: the foundation of the enterprise.
Innovation: sources of enterprise development.
Responsibility: the morality of enterprise.
Win-win: path for survival of enterprise.
Microchannel Aluminium Tube

Introduction
Microchannel aluminium tube is mainly used for the production of heat exchangers. Due to its high corrosion-resistance & good heat conductivity, the microchannel tube is particularly well suited for the use in evaporators & condensers. The tube is required increased burst strength and better heat conductivity for an optimized product size. To meet the market requirement, we developed zinc-coated which can be supplied in the form of coils, or fixed length by non-cutting separation method.

Characteristics
1. Low weight
2. Good thermal and electricity conductivity
3. Good forming and bending capability
4. Good corrosion and pressure resistance
5. High recycling value
6. Narrow tolerance range

Surface Treatment
Zinc spray / without Zinc spray

Size
16*2.10 18*2.10 20*2.10 16*1.8-8 20*1.8-10 16*2.7 18*2.8 20*2.9 16*1.4*18 22*2.12 32*5.3 40*6.6
*We can manufacture the tube according to customers' drawings and requirement.

Material Chemical Composition

<table>
<thead>
<tr>
<th>No.</th>
<th>Alloy</th>
<th>Si</th>
<th>Fe</th>
<th>Cu</th>
<th>Mn</th>
<th>Mg</th>
<th>Cr</th>
<th>Zn</th>
<th>V</th>
<th>Ti</th>
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<tbody>
<tr>
<td>1</td>
<td>1050</td>
<td>≤0.25</td>
<td>≤0.40</td>
<td>≤0.05</td>
<td>≤0.05</td>
<td>≤0.05</td>
<td>---</td>
<td>≤0.05</td>
<td>≤0.05</td>
<td>≤0.03</td>
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<tr>
<td>2</td>
<td>1100</td>
<td>≤0.95(Si+Fe)</td>
<td>0.05-0.20</td>
<td>≤0.05</td>
<td>---</td>
<td>---</td>
<td>≤0.10</td>
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<tr>
<td>3</td>
<td>3102</td>
<td>≤0.40</td>
<td>≤0.70</td>
<td>≤0.10</td>
<td>0.05-0.40</td>
<td>---</td>
<td>---</td>
<td>≤0.30</td>
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<tr>
<td>4</td>
<td>3003</td>
<td>≤0.15</td>
<td>≤0.15</td>
<td>≤0.01</td>
<td>0.90-1.10</td>
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<td>≤0.03</td>
<td>≤0.05</td>
<td>≤0.05</td>
<td>≤0.10</td>
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Temper and Mechanical Properties

<table>
<thead>
<tr>
<th>Alloy</th>
<th>Temper</th>
<th>Tensile Strength</th>
<th>Yield Strength</th>
<th>Elongation</th>
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<tbody>
<tr>
<td>1050</td>
<td>O/F/H111/H112</td>
<td>≥65MPa</td>
<td>≥20MPa</td>
<td>≥25%</td>
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<tr>
<td>1100</td>
<td>O/F/H111/H112</td>
<td>≥75MPa</td>
<td>≥20MPa</td>
<td>≥25%</td>
</tr>
<tr>
<td>3102</td>
<td>O/F/H111/H112</td>
<td>≥75MPa</td>
<td>≥20MPa</td>
<td>≥25%</td>
</tr>
<tr>
<td>3003</td>
<td>O/F/H111/H112</td>
<td>≥75MPa</td>
<td>≥20MPa</td>
<td>≥25%</td>
</tr>
</tbody>
</table>

Production Equipments

Conform Extrusion Machine
BRS Flat Tube Cutting Machine
ALUMINIUM BILLET
ALUMINIUM BILLET
ALUMINIUM BILLET
CASTING MACHINE

Aluminium Billet Model NO.:
1060 1070 3003 1100 5052 5083 6005 6061 6063

Aluminium Slab Model NO.:
1200 3003 3702 3703 5052 5577 5579 7005 7072

Aluminium Ingot Model NO.:
ZLD101 ZLD102 ZLD104 A360 A356 ADC12

ALUMINIUM SLAB
ALUMINIUM SLAB
ALUMINIUM INGOT
MELTING FURNACE

ALUMINIUM SLAB
MELTING FURNACE
We strongly believe the importance of maintaining high quality in all our products. We have brought in advance quality testing equipment to perform various quality tests as to ensure strict quality control before delivery. We have adopted an advanced data management system to monitor and to supervise all individual processes in our whole production line of the product with traceable data in details and recorded at all levels. We have implemented a total quality management (TQM) control system to ensure only top quality product is produce and well-pack by PMI. Our product are fully comply with the international standard such as EN, JIS, AA, AS/NZS and other well recognized stand and requirement.

The Quality Inspection Department is provided with quality inspectors of different work procedures, workshop inspectors, raw and auxiliary materials inspectors and finished product inspectors, altogether more than 20 professional quality inspectors.
Fengbao advocates the enterprise spirit of "people-oriented, user priority", and possesses a large number of outstanding talents with middle and high-level technical titles and well-trained employees. Establishing the Quality Inspection Department which is responsible for product quality inspection. During the process of controlling the process and product quality, Fengbao adopts the "Three-level inspection" system including "self-inspection", "mutual inspection" and "special inspection", so as to ensure the total three-level product quality inspection system that "Non-conforming raw materials are not put into use, non-conforming products are not produced, and unqualified products are not delivered", insists on the all-staff quality monitoring system of "next procedure supervises the previous procedure, self-inspection of the procedure and quality inspection monitoring" Fengbao has established the quality inspection center to inspect the quality during the whole process, thus ensuring the quality and long-term stability of products.