

Discover Inner Mongolia Shuangxin
Environment-friendly Material Co., Ltd.



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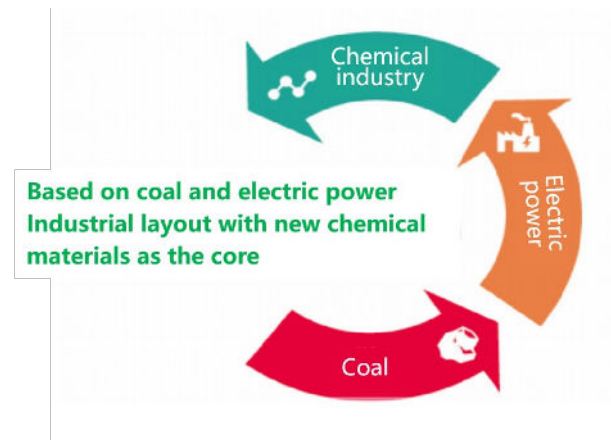
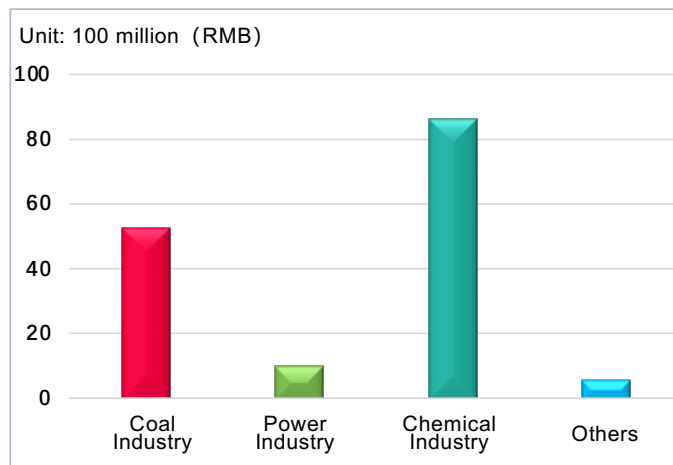
- **Brief Introduction of Shuangxin Group**
- **Brief Introduction of Shuangxin**

Inner Mongolia Shuangxin Energy & Chemical Co., Ltd.

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- **Date of establishment:** 20th, June 2000
- **Company address:** Ordos city, Inner Mongolia, China
- **Actual controller:** Qiao Yuhua
- **Main business:** Coal, Power, LNG and new chemical material
- **Operating revenue:** 1.54 billion USD (2023)
- **Empolyees:** 4000+



Vision, Enterprise Spirit and Business Philosophy

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■ Vision

- To build a global first-class enterprise of green chemical new materials

■ Enterprise spirit

- Pragmatic and dedicated, united and cooperative, never give up

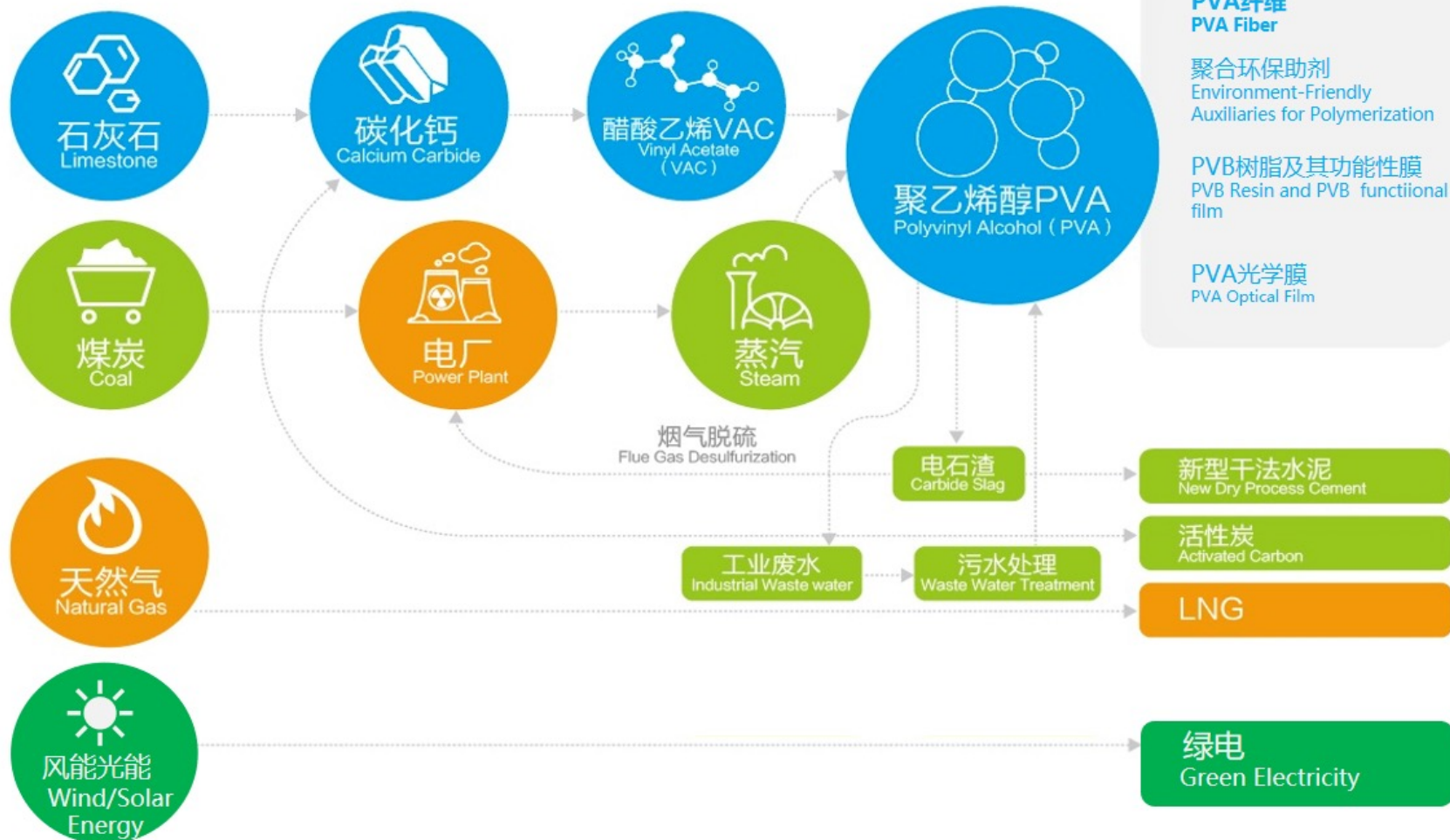
■ Business philosophy

- Win-Win for safe production and economic benefits
- Win-Win for enterprise development and employee growth
- Win-Win for Shuangxin and partners



Circular Economy Industry Chain of Shuangxin Group

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Inner Mongolia Shuangxin Environment-Friendly Material Co., Ltd.

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- **Date of establishment:** June 2009
- **Main business:** Development, Production and Sales of Polyvinyl Alcohol (PVA) and upstream and downstream Products in the industrial chain
- **Main products:** Polyvinyl Alcohol (PVA), Environment-Friendly Auxiliaries for Polymerization, PVA Fiber, Vinyl Acetate (VAC), Calcium Carbide, DMC, EMC, DEC



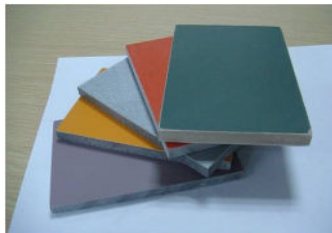
Application field of PVA

- Laminated glass diaphragm
- PVB film for automobile
- Solar PVB film
- PVB resin
- PVA sheet
- PVA film
- PVA sheet glasses frame
- PVA absorbent sponge board
- Water transfer printing
- Adhesive
- Food packaging
- Dispersant
- Fiber
- Paper making
- Paint
- Emulsifier
- Electron
- Yarn



Product Application Field

■ Application field of PVA fiber



PVA fiber grades data sheet

Grades	Unit	SSX1	SX1	SX2	SX1t	SX7t	SX9t
Titer	dtex	2.0±0.25	2.0±0.25	2.0±0.25	1.15+/-0.25	7.0±1	10.0±1
Tenacity	CN/dtex	≥13.5	≥12.8	≥11.5	≥12.0	≥10.5	≥9.5
Elongation	%	≤7.0	≤7.0	≤7.5	≤7.5	≤8.0	≤9.0
E-Modulus	CN/dtex	≥320	≥300	≥280	≥280	≥250	≥230
Hot water solubility (90°C, 1hr)	%	≤1.5	≤1.5	≤2.0	≤2.0	-	-
Sizing agent	%	0.1-0.4	0.1-0.4	0.1-0.4	0.1-0.4	-	-
Visual classification of dispersion (6 classes)	6 classes	1	1	1 ~ 2	-	-	-
Cutting length	mm	4mm, 5mm, 6mm or according to customers' request				12mm or according to customers' request	
Package and Loading	P.P.bag, Net Wt.212.5kg/bale, 8bales/pallet, 13.6mt/ 20'FCL or 27.2mt/40'FCL						

PVA Fiber

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Package and Loading quantity:

P.P.bag, Net Wt. 212.5Kg/bale, 8bales/pallet, 13.6t/ 20'Fcl or 27.2t/40'Fcl

Kraft bag, Net Wt. 13Kg/bale, 32bales/pallet, 8.32t/20'Fcl or 16.64t/40'Fcl

Management System Certification



QUALITY

Inner Mongolia

Design development (High strength production of)

OCCUPATIONAL HEALTH

Inner Mongolia

Design development strength & high m Vinyl acetate p

ENERGY MANAGEMENT

Inner Mongolia

Energy procurement, transportation process management production of HI Comprehensive energy unit ou

两化融

INTEGRATION OF INFORMATION

内蒙古

管理体系符合

《信息化和工

本证书对下述评定范围有效：
位于内蒙古鄂尔多斯市
限公司，与基于用户需求的

发证日期：2021年12月31日
有效期至：2024年12月31日

NO. A 90022306

CERTIFICATE OF REGISTRATION

This certifies that the Quality Management System of

Inner Mongolia Shuangxin Environment-Friendly Material Co., Ltd.

Shuangxin Street, Mengxi High-tech Industrial Park, Ordos City, Inner Mongolia, 016014

has been audited in accordance with

the Rules for registration scheme for IATF16949:2016
and found to be in conformance to the following standard:

IATF16949:2016

Scope of Registration

Design and Manufacture of PVA(Special Raw Material Used for PVB)

Exclusions: None

Registration Date: Feb 22, 2022
Expiration Date: Feb 21, 2025
IATF Certificate No: 0444060
CASC Certificate No: 2022A082

General Manager: *Xiao Fei*

China Jiuding Automotive Supplier Certification Co., Ltd.

Room 510, Floor 5, Building 1, No.12 Dongdaqiao Road, Chaoyang District, Beijing, P.R. China

This certificate is the property of CASC and must be returned upon request. To keep the valid of registration, Surveillance Audit for conformance is mandatory. To visit at www.casc-cert.com and www.iatf16949.org to verify registration.

CNAS Laboratory Accreditation Certification

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中国合格评定国家认可委员会 实验室认可证书

(注册号: CNAS L10417)

兹证明:

内蒙古双欣环保材料股份有限公司质检中心

(法人: 内蒙古双欣环保材料股份有限公司)

内蒙古鄂尔多斯市鄂托克旗蒙西高新技术工业园区双欣街,

016014

符合 ISO/IEC 17025:2017《检测和校准实验室能力的通用要求》
(CNAS-CL01《检测和校准实验室能力认可准则》)的要求,具备承担本
证书附件所列服务能力,予以认可。

获认可的能力范围见标有相同认可注册号的证书附件,证书附件是
本证书组成部分。

生效日期: 2023-11-03

截止日期: 2029-11-02



中国合格评定国家认可委员会授权人 **张朝华**

中国合格评定国家认可委员会(CNAS)经国家认证认可监督管理委员会(CNCA)授权,负责实施合格评定国家认可制度。
CNAS是国际实验室认可合作组织(ILAC)和亚太认可合作组织(APAC)的互认协议成员。
本证书的有效性可登陆www.cnas.org.cn获认可的机构名录查询。



China National Accreditation Service for Conformity Assessment LABORATORY ACCREDITATION CERTIFICATE (Registration No. CNAS L10417)

**Inner Mongolia Shuangxin Environment-Friendly Material
Co., Ltd. Quality Inspection Center**

(Legal Entity: Inner Mongolia Shuangxin Environment-Friendly Material Co., Ltd.)

Shuangxin Street, Mengxi Industrial Estate, Etuokeqi, Ordos, Inner Mongolia,
China

is accredited in accordance with ISO/IEC 17025:2017 General
Requirements for the Competence of Testing and Calibration
Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of
Testing and Calibration Laboratories) for the competence to undertake
the service described in the schedule attached to this certificate.

The scope of accreditation is detailed in the attached schedule
bearing the same registration number as above. The schedule forms an
integral part of this certificate.

Effective Date: 2023-11-03

Expiry Date: 2029-11-02

Signed on behalf of China National Accreditation Service for Conformity Assessment

张朝华

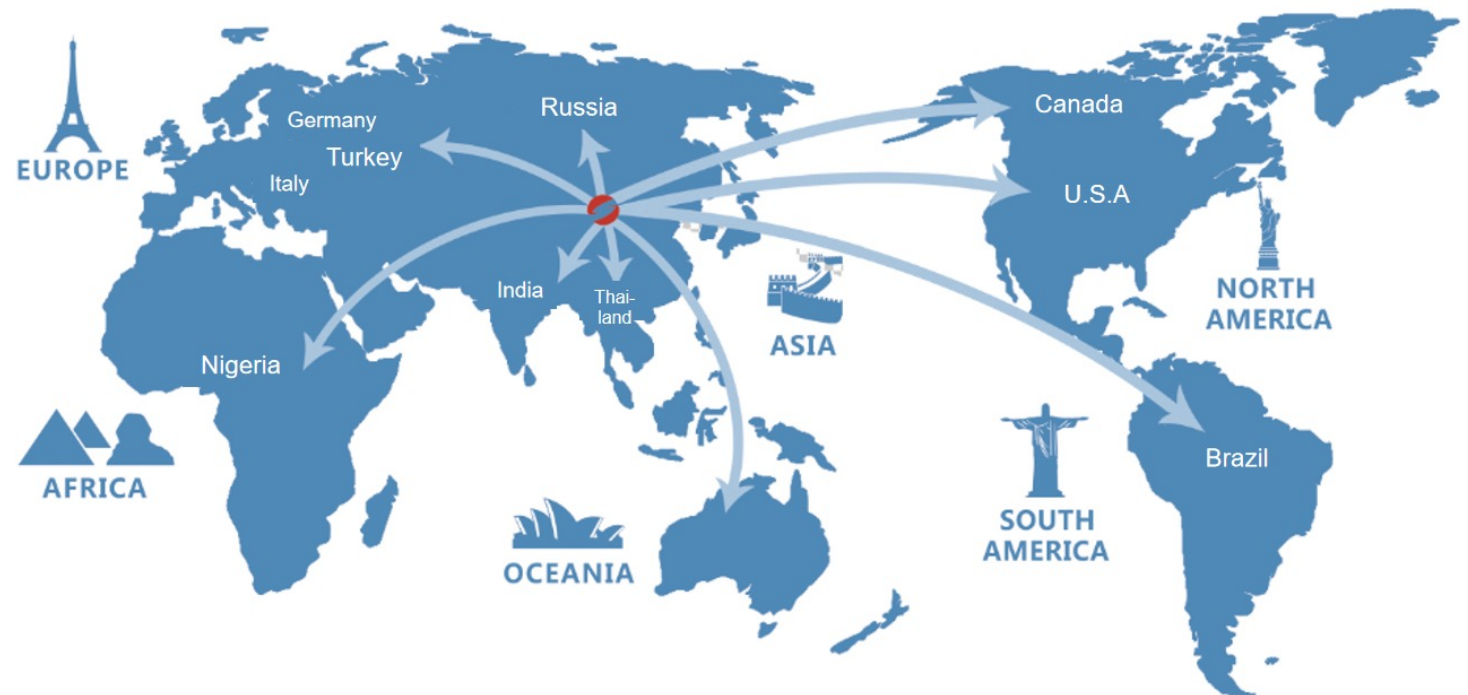
China National Accreditation Service for Conformity Assessment (CNAS) is authorized by Certification and Accreditation
Administration of the People's Republic of China (CNCA) to operate the national accreditation schemes for conformity
assessment. CNAS is a signatory of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement
(ILAC MRA) and the Asia Pacific Accreditation Cooperation Mutual Recognition Arrangement (APAC MRA).
The validity of the certificate can be checked on CNAS website at <http://www.cnas.org.cn/english/findanaccreditedbody/index.shtml>.

Marketing Network

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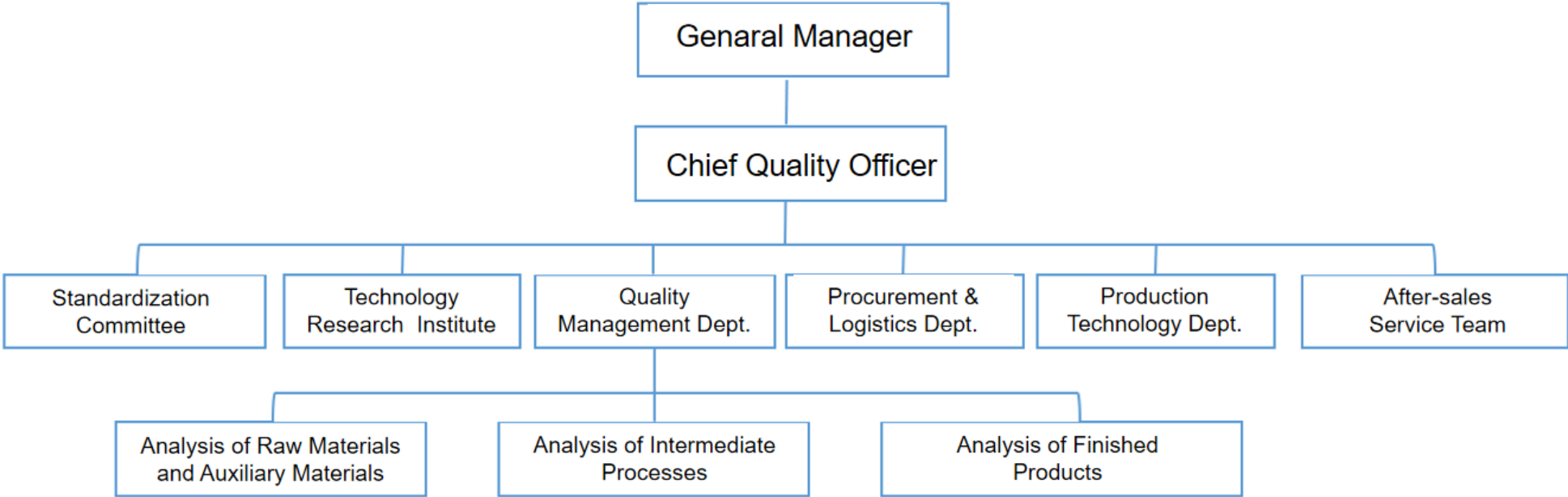


- Covering 29 provinces, municipalities, and autonomous regions in China
- Exporting to more than 40 countries in Europe, South America, North America, the Middle East, Southeast Asia and Northeast Asia



Quality Management System

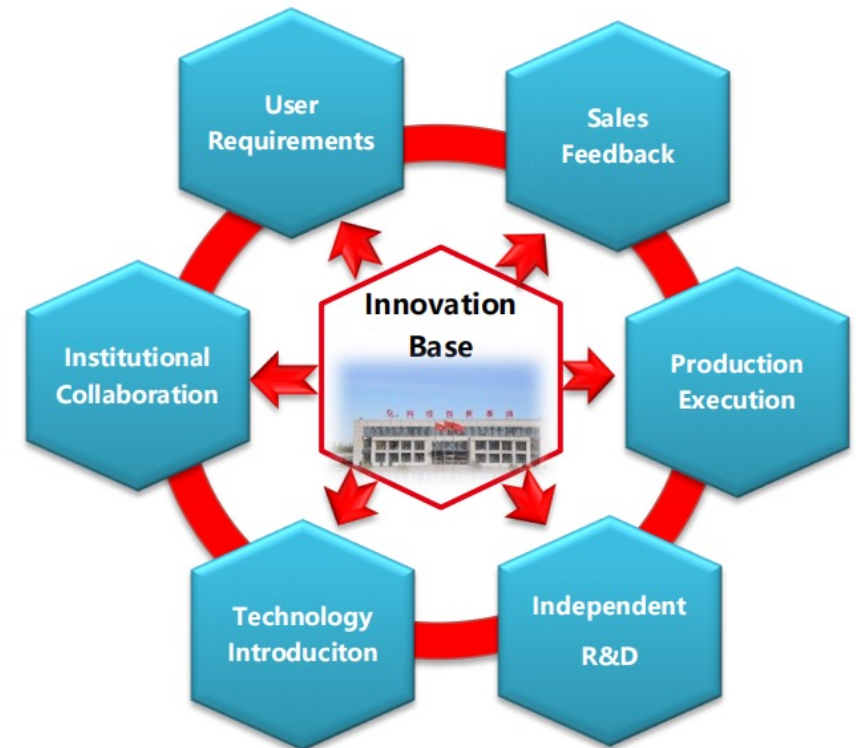
Led by General Manager and Chief Quality Officer
Based on ISO 9001 and IATF 16949 Automotive Quality Management Systems
Full chain quality control from R&D, procurement, production, delivery to after-sales service



Research and Development Innovation

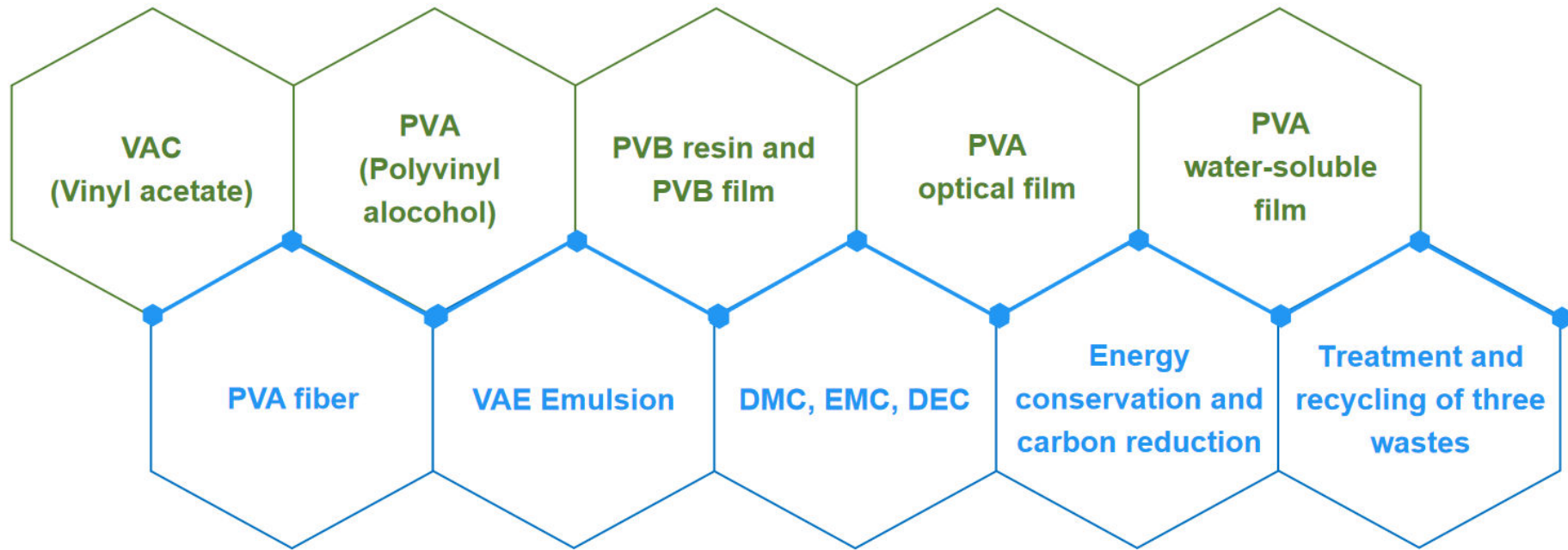
- **Establishment of Shuangxin institute of polymer technology:** October 2012
- **R&D personnel:** 31 (Doctor, Master, Bachelor)
- **Domestic and foreign experts:** 9
- **R&D equipment:** Pilot plants; More than 300 sets of experimental instruments and equipment for R&D

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R&D Innovation-- R&D Direction

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Innovation Platform—Laboratory

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PVA Fiber Testing Facility

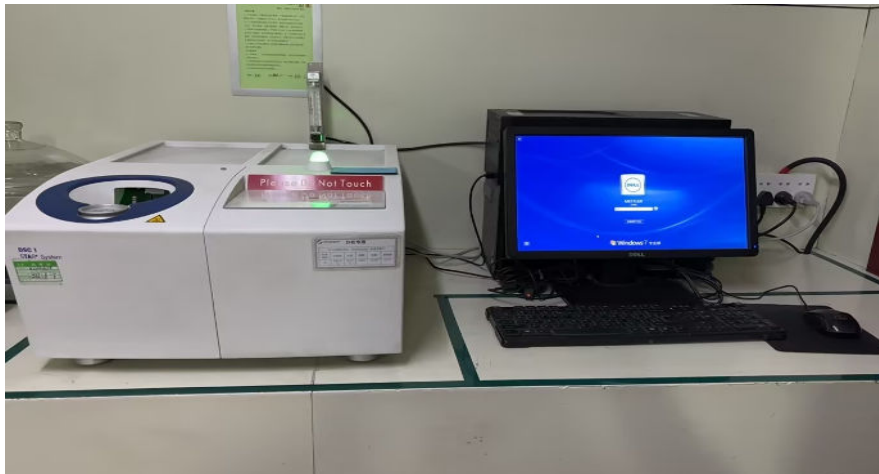
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Constant temperature and humidity room



Sheet former



Differential scanning calorimeter (DSC)



Textechno

PVA Fiber Testing Facility

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Microscope



Compression testing machine

Green Development Plan

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■ Our goal

Carbon peak
by 2030

Carbon
neutrality by
2050

■ To achieve our goal, the following work are being carried out

➤ Extension and expansion of business

- ✓ Clean energy (LNG in expansion)
- ✓ New energy (wind and photovoltaic power plants under construction)
- ✓ New materials (New special PVA and extension of VAC-PVA downstream materials)

Sustainable Development--EcoVadis Certification & TFS Certification



INNER MONGOLIA SHUANGXIN ENVIRONMENT-FRIENDLY MATERIAL CO LTD (ORDOS SITE)

Ordos - 中国 | 化学制品、化肥以及原始形态

公司企业规模: M ⓘ | 考核评估范围: 场所

记分卡 新版

发布日期: 2024年4月9日

总分

百分比
第83

64/100

Together for Sustainability

Overview

1. Audit Information

Audit report number:	JSASCN2413
Audit company:	SGS
Lead Auditor:	Nancy Song
Co-Auditor:	

2. Supplier Information

Company name (legal entity):	Inner Mongolia Environment-Friendly Material Co., Ltd.
Company site name (if different):	Nil
Supplier ID:	04573
Duns number:	000000000
Tax number:	911506006900
Valid business license?	yes
Date of validity: (yyyy-mm-dd)	1900-01-00
Business license number:	911506006900
Site date of foundation: (yyyy-mm-dd)	2009-06-04

总分: 64/100 (BRONZE | Top 35%)

TOGETHER FOR SUSTAINABILITY

3. Audit Findings

Answered questions	145 (of 145)	Total Score	82%
Thereof questions answered with n/a	10 (6.9%)	Total Points / max. Points	164 / 200

Finding Category	Minor	Major	Critical	Total Points [max. Points]
Environment	2	0	0	36 [40]
Health & Safety	2	3	0	41 [60]
Labor & Human Rights	0	1	0	55 [60]
Management	4	0	0	12 [20]
Governance	0	0	0	20 [20]
Total	8	4	0	164 [200]

Please note: Not all questions have been answered!

Additional information:

Have there been investigations or legal proceedings regarding corruption / bribery / fraud in the last five years?	no
Are hazardous goods produced or worked with in production?	yes
Does the company operate containment facilities to temporarily contain fire water, including rain?	yes
Is the company considered energy intensive (high carbon footprint)?	yes
Is electrical power purchased by the site generated by traditional fossil fuels (fuel oil, coal, diesel, LPG, natural gas)?	yes
Is the company fresh water intensive and poses a water scarcity risk to the environment in which it operates?	no
Where is the supplier site located?	in a planned industrial area/zone



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Welcome visit our stand No.11!

THANKS FOR ATTENTION!

Sincerely Look Forward to Cooperation

Contact Us

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Inner Mongolia, China

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