



# CERTIFICATE



This is to certify that

## BASF-YPC Company Limited

No 266, Ethylene Road, Luhe District  
210048, Nanjing, Jiangsu  
China

Unified Social Credit Code: 91320000710939573X

has implemented and maintains an **Energy Management System**.

Scope:

Manufacturing and sales of basic chemicals, polymers, performance and fine chemicals. See attached "Product List" for the product list.

*Please see the certificate appendix with the same certificate registration number for the comprehensive energy consumption per unit output and energy consumption accounting boundary of the certified organization, which is an integral part of this certificate.*

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

## ISO 50001 : 2018

Certificate registration no.	403281 EMSt21
Valid from	2025-01-15
Valid until	2028-01-14
Date of certification	2025-01-15



### DQS GmbH

Christian Gerling  
Managing Director

DQS IS A MEMBER OF



Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany  
Responsible Office: DQS AP Ltd., 906-907, Waterfront Place Block E, No.31, Lane 168, Daduhe Road,  
Putuo District, Shanghai, China, Post Code: 200062

The validity of this certificate can only be verified by the QR-code as well as CNCA official website [www.cnca.gov.cn](http://www.cnca.gov.cn).



## Annex to certificate Registration No. 403281 EMSt21

### BASF-YPC Company Limited

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Audit Type/Time	Energy Consumption Per Unit Product and Energy Consumption per Unit Output Value in Audit Cycle	Energy Consumption Accounting Boundary
Initial certification audit From December 23, 2024 to December 26, 2024	<p>Jan. - Dec. 2023, Comprehensive energy consumption per unit chemical product: 1.015 tce/t; Comprehensive energy consumption per unit output value: 2.180 tce/10k yuan</p> <p>Including: Comprehensive energy consumption per unit ethylene product: 637.28 kgoe/t; Comprehensive energy consumption per unit diene product: 417 kgoe/t; Comprehensive energy consumption per unit styrene product: 286.98 kgoe/t; Comprehensive energy consumption per unit ethylene glycol product: 258.12 kgce/t;</p>	<p>The production system, supporting production system and auxiliary production system involved in the manufacturing and sales of basic chemicals, polymers, performance and fine chemicals within the boundary of BASF-YPC Company Limited located at No 266, Ethylene Road, Luhe District, 210048, Nanjing, Jiangsu, China (including Main Production Plant Area, Gas-fired Steam Combined Cycle Power Plant, Central Tank Area - Terminal, Syngas Unit Area, Cracking Tank Area, On-site Logistics and Utility Unit).</p> <p>The production process includes: steam cracking unit EU, aromatics unit AEU/PGU, butadiene unit BD/IB, styrene unit EB/SM, syngas unit SYN, EOEG/NIS unit, polyethylene unit LDPE, polystyrene unit PS, Carbon-one combined unit C1, Butanol unit OXO/PIB, Alcohol-amine combined unit ACN/NPG, Acrylic acid and acrylic ester unit AA/AE, Super adsorption unit SAP.</p>
	<p>Jan. - Nov. 2024, Comprehensive energy consumption per unit chemical product: 0.9714 tce/t; Comprehensive energy consumption per unit output value: 2.152 tce/ 10K yuan</p> <p>Including: Comprehensive energy consumption per unit ethylene product: 625.52 kgoe/t; Comprehensive energy consumption per unit diene product: 407 kgoe/t; Comprehensive energy consumption per unit styrene product: 275.84 kgoe/t; Comprehensive energy consumption per unit ethylene glycol product: 192.10 kgce/t;</p>	<p>The source of energy mainly includes naphtha, natural gas, steam, electricity and liquefied gas.</p> <p>The production system, supporting production system and auxiliary production system involved in the manufacturing and sales of basic chemicals, polymers, performance and fine chemicals within the boundary of BASF-YPC Company Limited located at No 266, Ethylene Road, Luhe District, 210048, Nanjing, Jiangsu, China (including Main Production Plant Area, Gas-fired Steam Combined Cycle Power Plant, Central Tank Area - Terminal, Syngas Unit Area, Cracking Tank Area, On-site Logistics and Utility Unit).</p> <p>The production process includes: steam cracking unit EU, aromatics unit AEU/PGU, butadiene unit BD/IB, styrene unit EB/SM, syngas unit SYN, EOEG/NIS unit, polyethylene unit LDPE, polystyrene unit PS, Carbon-one combined unit C1, Butanol unit OXO/PIB, Alcohol-amine combined unit ACN/NPG, Acrylic acid and acrylic ester unit AA/AE, Super adsorption unit SAP.</p> <p>The source of energy mainly includes naphtha, natural gas, steam, electricity and liquefied gas.</p>

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产品名称 (中文)	Product Name (English)
工业用乙烯	Ethylene for industrial use-Specification
聚合级丙烯	Propylene for polymerization-Specification
石油苯	Petroleum benzene
石油甲苯	Petroleum toluene
石油混合二甲苯	Petroleum xylene
炭黑原料油 乙烯焦油	Oil for use in the carbon black products -Ethylene bottom
工业用裂解碳五	Cracking C5 fraction for industrial use-Specification
裂解萘馏分	Cracking Naphthalene fraction
工业用丁二烯	Butadiene for industrial use -Specification
工业用异丁烯	Isobutene for industrial use - Specification
工业用裂解碳九	Cracking C9 fraction for industrial use-Specification
正丁醇	n-Butanol
异丁醇	Isobutanol
丙醛	Propionaldehyde
正丁醛	n-Butyraldehyde
异丁醛	Isobutyraldehyde
混合戊醛	Pentanal Mixture
丙酸	Propionic Acid Pure
甲酸	Formic Acid
无水二甲胺	Dimethylamine Anhydrous
无水三甲胺	Trimethylamine Anhydrous
二甲基甲酰胺	N,N-dimethylformamide (DMF)
工业用乙二醇	Ethylene Glycol for Industrial Use
工业用二乙二醇	Diethylene Glycol for Industrial Use
工业用三乙二醇	Triethylene Glycol for Industrial Use
低密度聚乙烯树脂	Low Density Polyethylene (LDPE) Resin
乙烯-乙酸乙烯酯共聚物	Ethylene-Vinyl Acetate (EVA) Resin
工业用粗丙烯酸	Crude Acrylic Acid for Industrial Use
工业用精丙烯酸	Glacial Acrylic Acid for Industrial Use
工业用丙烯酸甲酯	Methyl Acrylate for Industrial Use
工业用丙烯酸正丁酯	n-Butyl Acrylate for Industrial Use
工业用苯乙烯	Styrene for industrial use
普通型聚苯乙烯	General Purpose Polystyrene (GPPS)
高抗冲聚苯乙烯	High-impact Polystyrene (HIPS)
2-丙基庚醇	2-Propylheptanol (2-PH)
高活性聚异丁烯	HR-PolyIsoButene (HR-PIB)
聚异丁烯V系列	PolyIsoButene V series (PIB V series)
乙二胺	Ethylendiamine (EDA)
羟乙基乙二胺	Aminoethylethanolamine (AEEA)
二乙烯三胺	Diethylentriamine (DETA)
高分子乙烯胺	AMIX1000
三乙醇胺混胺	AMIX TE
一乙醇胺	Monoethanolamine Pure (MEOA)

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产品名称 (中文)	Product Name (English)
二乙醇胺	Diethanolamine Pure (DEOA)
三乙醇胺	Triethanolamine Pure (TEOA)
68%哌嗪	Piperazine 68% (PIP68%)
二甲基乙醇胺	N,N-Dimethylethanolamine (DMEOA)
非离子表面活性剂	Non Ionic Surfactant
丙烯酸二甲胺基乙酯	Dimethylaminoethyl Acrylate (DMA3)
超吸水聚合物	Superabsorbent Polymer
90%新戊二醇溶液	Neopentylglycol Solution 90%
工业用丙烯酸叔丁酯	t-Butyl Acrylate for Industrial Use.