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# Company Profile

01

#### COMPANY PROFILE

Ningbo HENTEK CAT Environmental Protection Technology Co., Ltd. is a high-tech enterprise specializing in manufacturing and offering technology solutions for motor vehicle emission control. We have two production plants in Jiangsu and Shandong Province with registered capital of 20 million yuan. Our main products are automobile three-way catalyst, catalytic converter, DPF, Doc, and providing exhaust solutions for gasoline vehicles, diesel vehicles, CNG/LPG vehicles.









## **Our Honors**









## **Products & Business Fields**



#### **Business**

- OEM supporting
- Aftermarket and Foreign trade
- Upgrading and transformation of parallel imported vehicles



#### Product

- Slurry
- Catalysts: TWC/GPF/DPF/SCR/DOC...
- Directly fitted assembles and Universal converter.



#### **Application Fields**

- Gasoline vehicle/ Diesel vehicle
- Natural gas vehicle
- Non-road Motor Machinery
- Shipbuilding Industry
- Civil machinery

## Products Categories



Three Way Catalyst for Light Duty

Gasoline Automobiles





Light & Heavy Duty Diesel Vehicles catalsyts: DOC/DPF/SCR



Universal Catalytic Converter





**Directly Fit Catalyst Assemblies** 

High performance catalyst converter



Catalyst manifold







### Automobiles

ceramic catalyst 400/600 cpsi







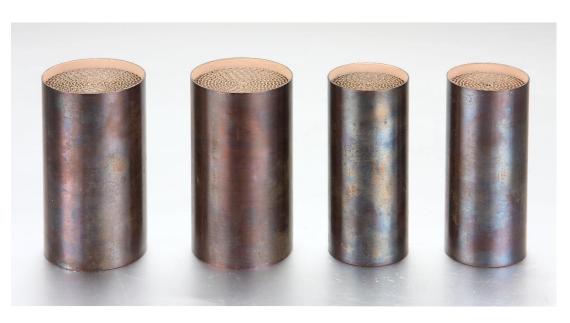
Three Way Catalyst for Light Duty

### **Gasoline Automobiles**

#### metallic catalyst 50/100/200/300/400cpsi





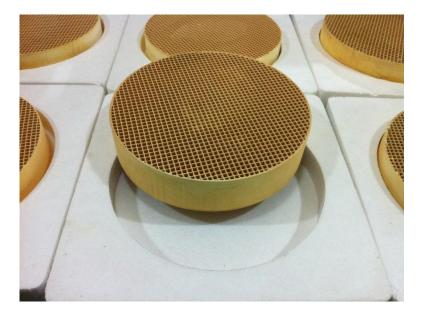






# HEATEK CONNECTION

## Diesel Vehicles catalyst: DOC/DPF/S





High performance catalytic converter & Universal catalytic converter



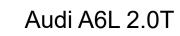












#### A6 & Passat 1.8T







#### Honda Avancier



Honda Accord 2.4



Benz C200



Roewe RX5 1.5T





#### Cruize Excelle 1.6/1.8









#### Hyundai Sonata





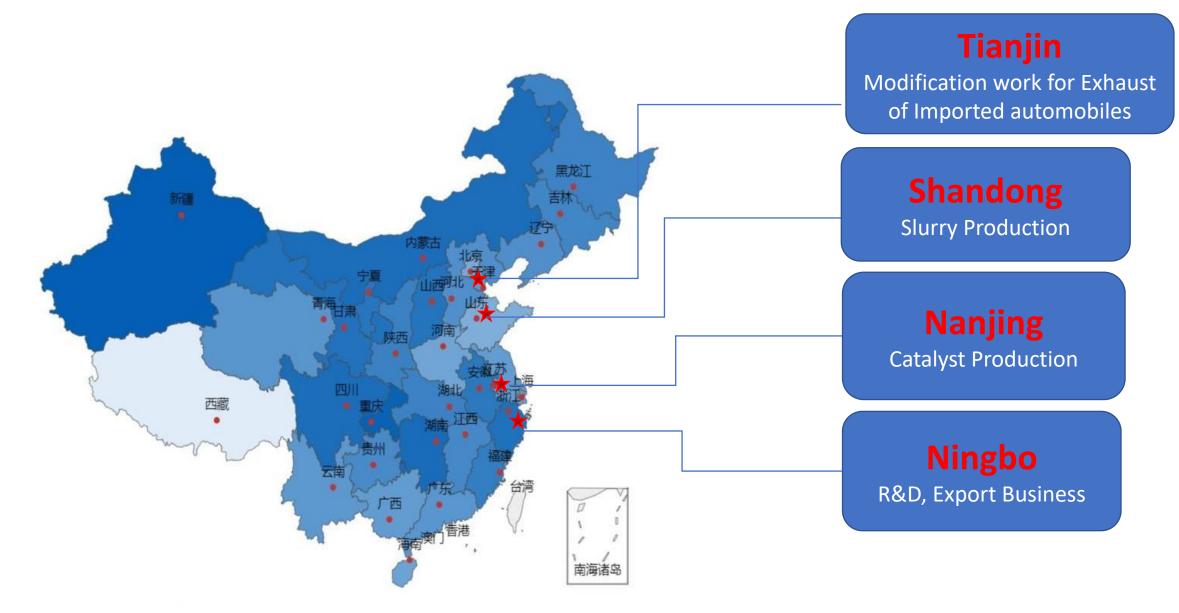








## Work Plants Locations









Currently 2 Units of Automatied Batching System, 2 Units of Automatied Coating System and 4 Channel Stove







# Technical

Advantages

## Patent Technology Support

1、Patent#: 202121881567.6 A kind of automobile exhaust device

2、Patent#:CN202110980356.6 An environment protection gasoline engine individual pull collector (Invention)

3、 Patent#: CN201810872194.2 Preparation method of high heat stable oxygen storage material (Invention)

4、CN202122256591.7: A monitoring and processing device for auto emission

- 5、CN202122474814.7:A protective structure for automobile exhaust system
- 6、CN202122475134.7: A vehicle emission detection device
- 7, 202111321620.1: Emission device for environment protection

202122256525.X: A supportive structure for particle collector at gasoline vehicles.

.....Another 7 patents are during processing



中华人民共和国环境保护行业标准

HJ/ T \_\_\_\_\_

燃油车用催化器浆料

正在编制中

2000-00-00发布

5.46

利告绍过被专家养,清宋段平专利权。

法律仪式, 于利权的解释, 清神, 无规, 终止, 很复乐

2000-00-00实施

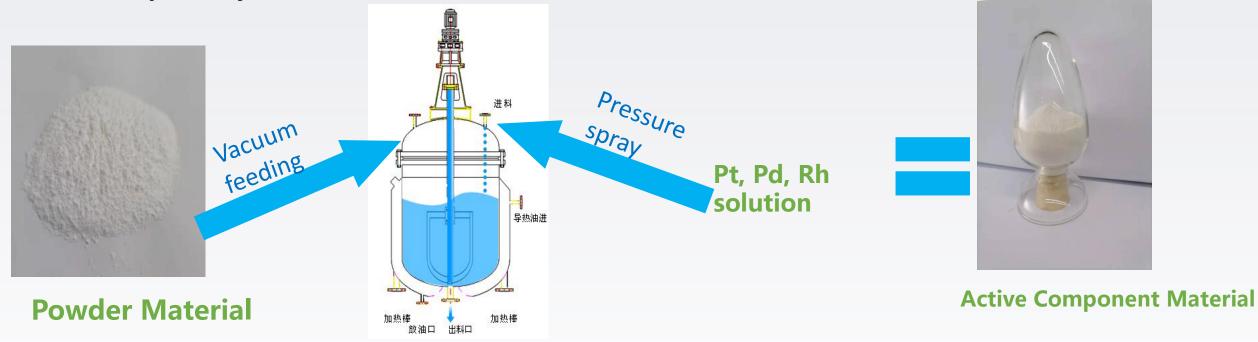
国家环境保护总局 发布

#### **Industry Standard:** (draft)





## Unique method of PGM absorbed on alumina and oxygen storage material, especially for aftermarket



Dipping Equipment (Stirring and heating)





115

The state of precious metal at catalyst: lon free state Part free state Part absorbed state

The state of precious metals(Cat Technology which has been applied less than 20% in OEM market, and 0 in after market)

Layered Tech

Zoning Tech

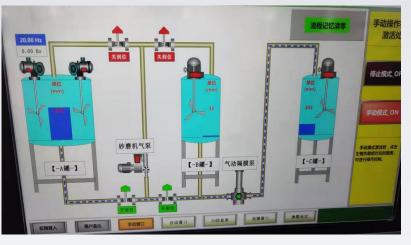
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Electron microscopic photos of precious metals in catalyst

Dispersion and uniformity of PGM in catalyst: Right> Left

## Advanced Equipment





Can use one Key start Precisely Control





### Equipment Old V.S New

Control	Old	New			
PH value	uncontrollable	Controllable			
Solid Content	uncontrollable	Controllable			
Granularity	uncontrollable	Controllable			
Viscosity	uncontrollable	Controllable			
Temperature	uncontrollable	Controllable			





ltem	HENTEK CAT	Other companies
Precious Metal	Heraeus Johnson Matthey	Domestic Supplier
Aluminum Oxide	佰德信	Domestic Supplier
Rare Earth	索尔维, 博晶	Domestic Supplier





# 03

## Product

Performance

### Products Performance Comparison Cat V.S other company

Project		Products by other company	Products by Cat	How much Cat superior			
Upload Qty			•	20-25%			
Shedding Rate			•	10%			
Specific Fresh			•	25%			
Surface Area	Aging			15%			
Oxygen Storage	Fresh		ē	20%			
	Aging		•	40%			
Conversio	n Rate		•	6%			
Light off Temperature			•	The Light off temperature is 60- 80 lower than other products			





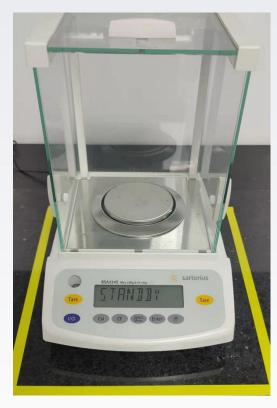


# Quality Assurance





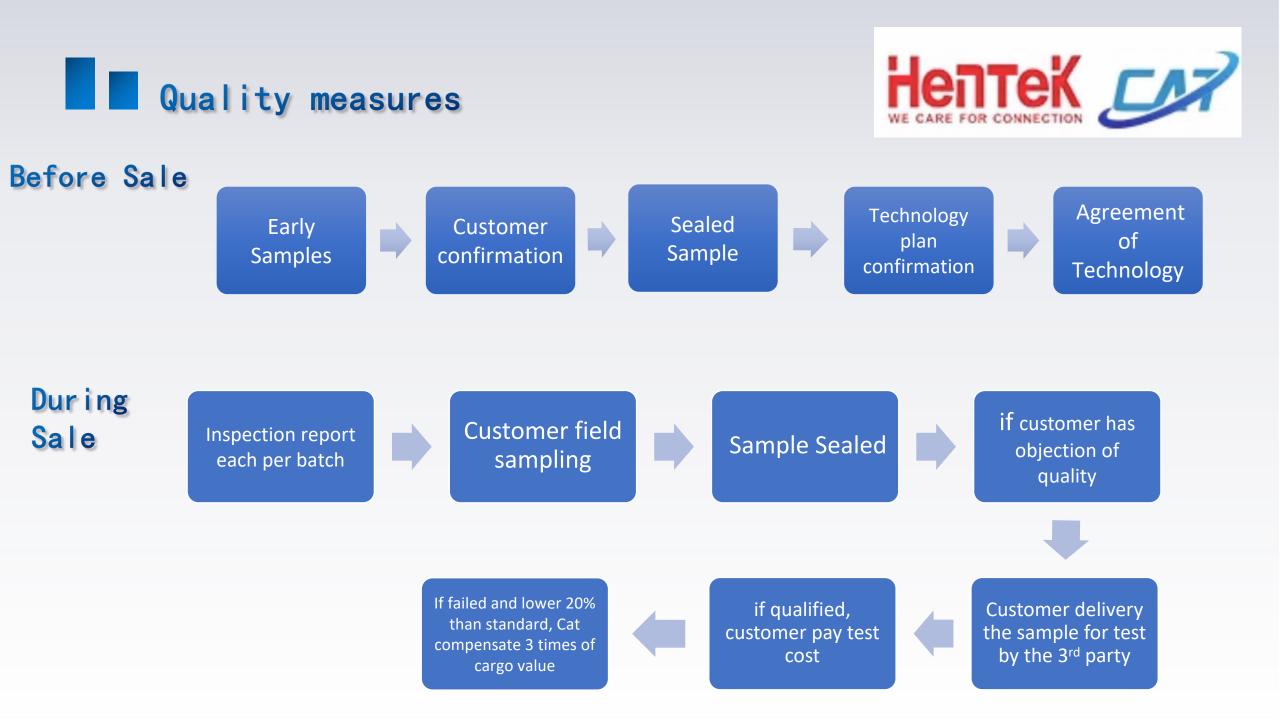






BET检测仪 (原材料比表面积 检测) 高精度电子称 (称贵金属) High-accuracy electronic balance

Malvern激光粒度检测仪 (原材料及浆料粒度检测) Malvern laser particle Detector







# After sale

Quality problems from market feedback Batch production has problem: compensate 3 times of cargo value

Occasional problems: compensate 2 times of the value





Item	1 Jan	2 Feb	3 Mar	4 Apr	5 May	6 Jun	7 Jul	8 Aug	9 Sep	10 Oct
Qty of Delivery	10963	6694	21832	21566	42085	48918	49460	23997	26982	16457
Quality target(returns%)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Actuality(return%)	0	0	0	0.05%	0	0.02%	0	0.08%	0.03%	0

Data is sourcing from catalyt sales records since Jan-Oct2021 Unit is by liter



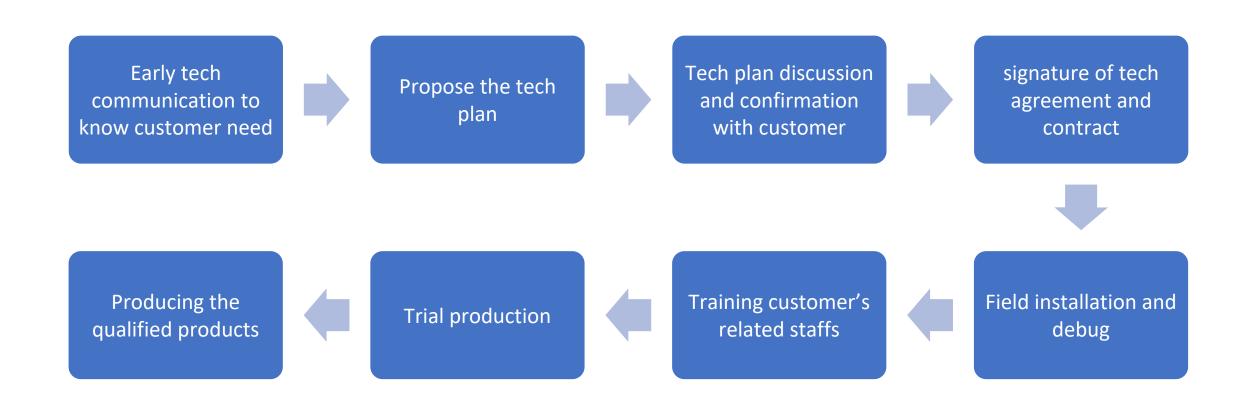


# 05

# **Technical Service**

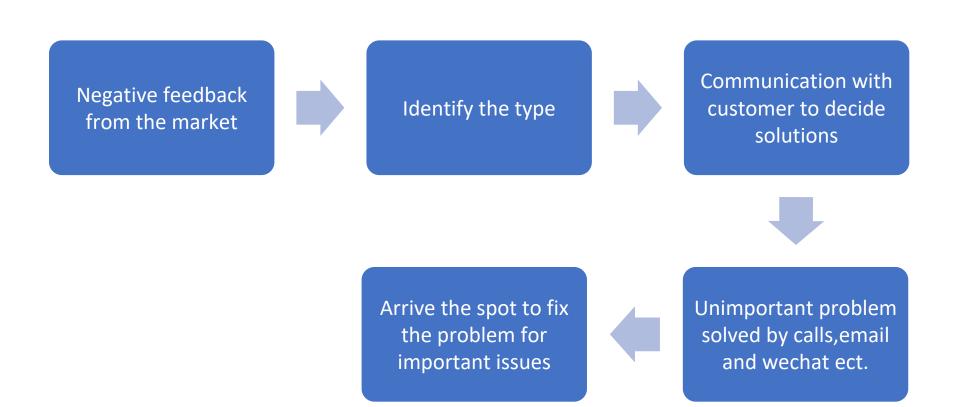
















## Win-Win Cooperation

Thank you!