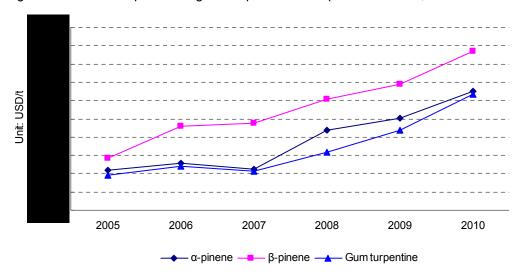
Note: Key data/information in this sample page is hidden, while in the report it is not.

I-2 Price of alpha/beta-pinene

I-2-1 Price in past years

The price of alpha/beta-pinene fluctuated with the price change of gum turpentine in the past.

Figure I-2-1.1 Annual price changes of alpha and beta-pinene in China, 2005~2010

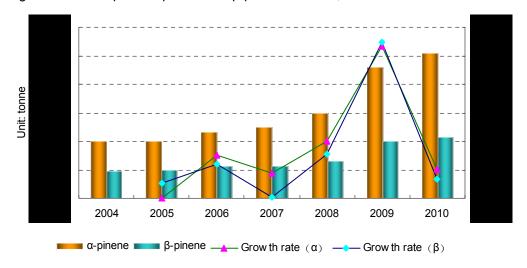


Source: CCM International

I-3 Supply of alpha/beta-pinene in China

I-3-1 Pinene output in past years

Figure I-3-1.1 Output of α -pinene and β -pinene in China, 2004~2010



I-3-2 Supply situation of active producers

According to various sources as of August 2011, there are over xx active pinene producers, in terms of commercial production. Among the major xx active producers of pinene,

Table I-3-2.2 Production situation of major active pinene producers in China, 2010

No.	Name	Abbreviation	Location	α-pinene		β-pinene	
				Capacity,	Output, '10,	Capacity,	Output, '10
				'10, t/a	tonnes	'10, t/a	tonnes
1	Guangdong Zhaoqing Zhongbang			10,000			
	Chemicals Co., Ltd.						
2							1,800
3							
4						4,000	
5			Guangdong				
6				6,000			
7		Jiangxi					1,200
		Zhongnan					
8	Jiangxi Xinghua Natural Spice				2,500	4,000	
	Co., Ltd.						
9					2,500		
10							
11				3,000			
12		Guangdong					
		Glorychem					
13			Yunnan				
14						3,000	
15	Jiangxi Ji'an Nature						
	Bioengineering Co., Ltd.						
16			Zhejiang		1,500		800
17							
18							
19				1,000			
20		Jiangxi Spice					
21							
22			Jiangxi				
23					200		
24	Jiangxi Jishui Huayuan Perfume				200		
	oil Plant						
25					100	50	
	Others	-	-	3,000			
	Total	-	-				

I-4-2 IE analysis of pinene, 2010 and Jan. ~ Jun. 2011

Table I-4-2.1 Monthly export situation of pinene in China, 2010 (Quantity: tonne; Price: USD/kg)

Month	α-pin	ene β-pinene		ene	Pinene	
	Quantity	Price	Quantity	Price	Quantity	Price
Jan.					2,385.200	
Feb.						
Mar.			276.855			2.91
Apr.		3.18		3.74		3.32
May		3.46		4.25		
Jun.	810.773				810.963	
Jul.			126.645			
Aug.						
Sept.				4.18		
Oct.	1,121.020					3.58
Nov.		4.24				
Dec.		4.52		4.98	3,257.072	
Total						

Note: Total price = Total value / total quantity

Source: CCM International

I-5 Consumption pattern of alpha/beta-pinene in China, 2010

I-5-1 Alpha-pinene

I-5-1-1 Market size and share of alpha-pinene

In 2010, the output of alpha-pinene is xxx tonnes. Besides..

Table I-5-1-1.1 Market size and share of alpha-pinene in different application fields in China, 2010

Field	Mark	et size	Market share	
	By volume (tonnes)	By value (USD, million)	By volume, %	By value, %
Dihydromyrcene/dihydromyrcenol				41.70%
Synthetic camphor		14.47	13.76%	
Synthetic borneol	1,440			
Other synthetic perfume		26.16		24.82%
Others	5,385		17.31%	
Total			100.00%	100.00%

I-5-2 Beta-pinene

I-5-2-1 Market size and share of beta-pinene

 β -pinene is very limited in the world. β -pinene is mainly applied to synthesize perfume and polymerized terpene resin.

Table I-5-2-1.1 Market size and share of beta-pinene in different application fields in China, 2010

Field	Mark	et size	Market share		
_	By volume (tonne)	By value (USD, million)	By volume	By value	
Myrcene		59.26			
All kinds of	4,240			24.89%	
perfume					
β-terpene resins					
Others			0.55%		
Total			100.00%	100.00%	

Source: CCM International

I-6 Brief introduction to raw material supply of alpha/beta-pinene

Turpentine is the major raw material for alpha-pinene and beta-pinene.

Table I-6.1 Output of gum turpentine and gum rosin in China, 1999~2010

Year	Output of gum turpentine (tonne)	Output of gum rosin (tonne)	Ratio (rosin: turpentine)
1999			100:13.33
2000			
2001		500,000	
2002	77,000		
2003	80,000		
2004			100:13.97
2005			100:14.73
2006		812,000	
2007	121,000		
2008			100:15.50
2009		553,000	
2010			

Note: Ratio represents that how many gum turpentine will be produced in the production of 100 tonnes of gum rosin.