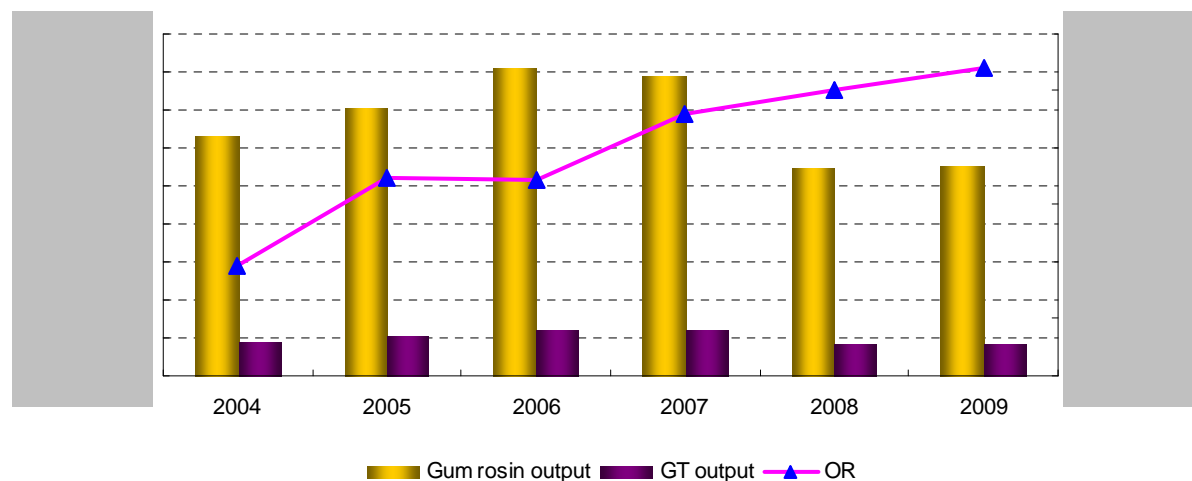


I-1.1 Production situation of gum turpentine

I-1.1.1 Gum turpentine's output

As GT is a by-product in the production of gum rosin, its production is closely related to the latter.....

Figure-1.1.1-1 Output of GT in China, 2004~2009



Note: OR (output ratio) = (output of GT) / (output of GR)

Source: CCM International

I-1.1.3 Distribution

Table I-1.1.3-1 Output distribution of gum rosin and GT in China, 2004~2009 (Unit: '000 tonnes)

Region	2004		2005		2006		2007		2008		2009	
	Gum rosin	GT	Gum rosin	GT	Gum rosin	GT	Gum rosin	GT	Gum rosin	GT	Gum rosin	GT
Guangxi	283.0					44.1						
Guangdong										14.7		12.6
Fujian				9.1			55.0					
Yunnan		8.8				17.6						
Jiangxi			65.0					15.3			40.0	
Hunan					34.0				15.0			1.6
Others				6.8								
Total		88.0					791.0					

Source: CCM International

I-1.4 Import & export situation of gum turpentine in 2009

China is a top producer and the largest exporter of GT in the world. About 10,000 tonnes of Chinese GT are exported to overseas countries every year, while only a small amount of GT is imported.

Table I-1.4-1 Export and import situation of turpentine in China, 2000~2009

Year	Export		Import	
	Quantity (tonne)	Price (USD/kg)	Quantity (tonne)	Price (USD/kg)
2000	8,476.269	█	█	█
2001	█	█	261.294	█
2002	█	0.57	█	█
2003	█	█	█	1.16
2004	█	█	█	█
2005	█	0.75	█	█
2006	█	█	194.318	█
2007	█	█	█	█
2008	5,302.282	█	█	4.10
2009	█	█	█	█

Note: Quantity = GT quantity + WT quantity + CST quantity, Price = average price of three turpentines (GT, WT and CST)

Source: CCM International

Table I-1.4-2 Export and import situation of gum turpentine in China, 2002~2006

Year	Export		Import	
	Quantity (tonne)	Price (USD/kg)	Quantity (tonne)	Price (USD/kg)
2002	█	█	█	1.00
2003	█	0.50	█	█
2004	█	█	600.597	█
2005	8,511.174	█	█	█
2006	█	█	█	3.10

Source: CCM International

I-1.4.1 Export analysis

Table I-1.4.1-1 Export destinations of turpentine in China, 2007~2009 (Quantity: tonne, Price: USD/kg)

No.	Destination	2009		2008		2007	
		Quantity	Price	Quantity	Price	Quantity	Price
1					1.54		
2		259.200					
3	Germany			143.030			
4						241.414	
5					1.58		
6			1.98			1,695.310	
7							1.22
8		28.000					
9				14.000			
10							
11			2.53		2.11		
12	Portugal					127.330	
13		18.580					1.11
14				54.59	1.36		
15					-		
	Others					4,580.907	
	Total						

Source: CCM International

I-1.5 Consumption situation of gum turpentine in China

I-1.5.1 Consumption patterns of gum turpentine

As a forest chemical product, unlike gum rosin which is competitive in the international market, Chinese GT is not so competitive compared with turpentine from overseas producers.....

Table I-1.5.1-1 Export situation of GT and its derivatives in China, 2006 and 2009 (Unit: tonne)

Chemical name	Export volume		Corresponding GT derivatives	Export volume '09	Demand for GT	
	2006	2009			2006	2009
Pine oil containing alpha-terpineol as the main constituent		5,653				
			Terpineol			
Cyclanes, cyclenes & cycloterpenes					21,000	
	18,088		Gum turpentine			
Camphor				9,600		
			Synthetic borneol		4,000	
Total						

Source: CCM International

Table I-1.5.1-3 Consumption pattern of GT in China in 2005, 2006 and 2009

Application method	Field	2005	2006	2009
Direct application				1.62%
	Solvent & cleaner			
Derivatives	Camphene (for export)		10.75%	
		23.68%		
				19.11%
	Synthetic borneol			
		17.77%		
			17.17%	
			4.94%	4.71%
Total			100.00%	

Source: CCM International

I-2 Crude sulphate turpentine

I-2.1 Production situation

I-2.1.2 Information in 2009

From various sources as of June 2010, it is reported that 13 paper mills can make soft pulp with chemical method. After investigation, CCM finds that only 9 of them recycle CST in the production of soft pulp.....

Table I-2.1.2-2 CST producers in China, 2009

No.	Name	Abbreviation	Status '10	Output '09 (tonne)
1	██████	██████	██████	██████
2	██████	Hongjiang Paper	██████	██████
3	Fujian Qingshan Paper Industry Co., Ltd.	██████	██████	██████
4	██████	██████	██████	100
5	██████	Yunnan Yunjing	██████	██████
6	██████	██████	Active	██████
7	Guangxi Nanning Phoenix Pulp & Paper Co., Ltd.	██████	██████	██████
8	██████	██████	██████	10
9	██████	Guangxi Hexing	██████	0
Total		-	-	██████

Source: CCM International