

 中国天辰工程有限公司 CHINA TIANCHEN ENGINEERING CORPORATION LTD.  ETI PT. ENGINEERING TIANCHEN INTERNATIONAL		项目名称 PROJECT	印尼PKT 30万吨/年纯碱项目 PKT 300KTA Soda Ash Project			
		设计项目 UNIT	滤过工段 Filtration Section	设计阶段 PHASE	详细设计 Detail Design	
		文件编号 DOC.NO.	T24B25-512-PS11-42		页码 PAGE 1/4	版次 REV. R03
带式滤碱机工艺数据单 Belt Filter Process Data Sheet						
R03	Issued for Approval					01-08-2025
R02	Issued for Review	MHR	CJW	FHD		11-07-2025
R01	Issued for Review	MHR	CJW	FHD		06-06-2025
版次 REV.	说 明 DESCRIPTION	设 计 PREPD	校 核 CHKD	审 核 REVIEW		日 期 DATE
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Process Data Sheet

R03

主项	滤过工段
UNIT:	Filtration Section

Belt Filter List

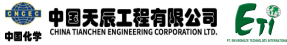
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  中国天辰工程有限公司 CHINA TIANCHEN ENGINEERING CORPORATION LTD.  ETI ETI CONSULTING TECHNOLOGY INTERNATIONAL	带式滤碱机工艺数据单 Belt Filter Process Data Sheet	文件编号 DOC.NO.	T24B25-512-PS11-42		
		页号 PAGE	2/4	版次 REV.	R03
项目 PROJECT: 印尼PKT 30万吨/年纯碱项目 PKT 300KTA Soda Ash Project	主项 UNIT: 滤过工段 Filtration Section				

Change log

Rev.	Date	Description of Change
R02	11-07-2025	Cake Moisture Guarantee value is adjusted to $\leq 16\%$.
R02	11-07-2025	Salinity of Sodium Bicarbonate Guarantee value (as NaCl) is adjusted to $< 0.15\%$.
R02	11-07-2025	Washing Water Guarantee value is adjusted to ≤ 0.6 .
R02	11-07-2025	Guarantee value is adjusted to $\geq 909t$ Soda ash/day.
R02	11-07-2025	Others agreed to change.
R03	01-08-2025	Guarantee value is adjusted to $\geq 910t$ Soda ash/day.
R03	01-08-2025	Loss of the cake is adjusted to $\leq 2\%$.
R03	01-08-2025	Others agreed to change.

  		带式滤碱机工艺数据单 Belt Filter Process Data Sheet		文件编号 Doc. NO.		T24B25-512-PS11-42	
项目 PROJECT:		主项号UNIT:		页码 Page		4/4	
印尼PKT 30万吨/年纯碱项目 PKT 300KTA Soda Ash Project		滤过工段 Filtration Section		版次 Rev.		R03	
1	设备名称 Service	带式滤碱机 BELT FILTER		设备位号 Item No.		512-X-01AB	
2	型式 Type	带式 Belt Type		套数 Qty		2	
3 碳化取出液数据 Carbonation Extraction Solution Data							
3.1	碳化取出液处理量 (单台) Carbonation Magma Capacity (Single)	kg/hr	正常 Normal	452952	最大 Maximum	498247	
3.2	固体含量 Solid Content	%weight	~14.04%				
3.3	温度 Temperature	°C	~40				
3.4	密度 Density	kg/m3	1214				
3.5	黏度 Viscosity	cP	1.4				
3.6	组成 Composition						
	Na ₂ SO ₄	%weight	~0.01%				
	NaCl	%weight	~8.14%				
	NH ₄ Cl	%weight	~16.17%				
	H ₂ O	%weight	~57.21%				
	CO ₂	%weight	~2.77%				
	NH ₃	%weight	~1.64%				
	Na ₂ CO ₃	%weight	~1.09%				
	NH ₄ HCO ₃ (s)	%weight	~0.47%				
	NaHCO ₃ (s)	%weight	~12.48%				
3.7	颗粒分布 Particle distribution						
		>425µm	0%				
		180~ 425µm	0~2%				
		125~180µm	20~24%				
		75 ~125µm	45~50%				
		63~75µm	15~20%				
		49~63µm	2~3%				
		<49µm	5~7%				
4 冲洗水数据 Process Water Data							
4.1	流量 (单台) Capacity (Single)	kg/hr	正常 Normal	By Vendor	最大 Maximum	By Vendor	
4.2	压力 Pressure	kgf/cm2G	By Vendor				
4.3	温度 Temperature	°C	~40				
5 滤饼数据 Cake DATA							
5.1	滤饼湿含量保证值 Cake Moisture Guarantee value	%weight	≤16%				
5.2	洗水当量 Washing Water Guarantee value	m³/t	≤0.6				
5.3	重碱盐分 (以NaCl计) Salinity of Sodium Bicarbonate Guarantee value (as NaCl)	%weight	<0.15%				
5.4	粒度 Particle Size	µm	80~150				
5.5	容重 Density	kg/m³	750~1000				
5.6	损失率 Loss	%weight	<2%				
5.6	回收率 Solid Recovery	%weight	≥98%				
6 性能 PREFORMANCES							
6.1	处理能力 Capacity						
	保证值 Guarantee value	t 纯碱 Soda ash/day	≥910				
6.2	操作类型 Type of Operations		√	Continuous		Discontinuous	
6.3	操作时间 Hours of operation per day per year	h/d/y	24h/day and 7920 hours per year				
6.4	带速 Belt speed	m/min	By Vendor				
7 电机数据 MOTOR DATA							
	主电机转速 Main Motor Speed	By Vendor. VFD	rpm	电压 Voltage	380	V	
	主电机功率 Main Motor Power	By Vendor	kW	相数 Phase	3		
	主电机重量 Main Motor Weight	By Vendor	kg	频率 Frequency	50	Hz	
	压辊电机转速 Roller Motor Speed	By Vendor. VFD	rpm	防护等级 Ingress Protection	IP55		
	压辊电机功率 Roller Motor Power	By Vendor	kW				
	压辊电机重量 Roller Motor Weight	By Vendor	kg				
	安装 Erection						
	涂漆 Painting	见涂漆规定 See attachment 5					
备注Remark:							
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