

Technical Specifications 技术要求

项目 Project	絮凝剂 Flocculant	促凝剂 Coagulant
应用环节 Application Stag	尾矿浓缩 Tailings Thickening	尾矿浓缩 Tailings Thickening
尾矿浓缩型号 Tail thickener model	42-HRT-H-300-H / 53-HRT-H-300-H	42-HRT-H-300-H / 53-HRT-H-300-H
设备台数 Number of equipment	2/1	2/1
沉降面积 Settlement area (m2)	1385 / 2205	1385 / 2205
外沿高度 outer edge height (m)	2.8	2.8
坡度 slope angle(°)	1:6	1:6
给矿 pH 值 Feed pH	7.8-8.4	7.8-8.4
给矿主要成分 Feed components (%)	Fe ₃ O ₄ , Fe ₂ O ₃ , SiO ₂ , Al ₂ O ₃ , TiO ₂ , MnO ₂ , CaO, P, S, MgO, K ₂ O, Na ₂ O 等	Fe ₃ O ₄ , Fe ₂ O ₃ , SiO ₂ , Al ₂ O ₃ , TiO ₂ , MnO ₂ , CaO, P, S, MgO, K ₂ O, Na ₂ O 等
当前絮凝剂名称 Flocculant name	FLOPAM AN934SH	LDP552V
单耗 Unit consumption (kg/dry ton)	0.02 (原矿)	0.09 (原矿)
给料浓度 Feed concentration (%)	3-9	3-9
底流浓度 Underflow density (%)	≥55	≥55
水质浊度 Water Turbidity (ppm)	≤300	≤300
供货形式 Supply Format	袋装 Bagged	直接注入储罐 Direct Delivery to Storage Tank
环保安全 Safety and environmental protection standards	符合澳标、WHS、SDS 及 AICIS 要求 Meets applicable Australian Standards, WHS, SDS and AICIS requirements.	符合澳标、WHS、SDS 及 AICIS 要求 Meets applicable Australian Standards, WHS, SDS and AICIS requirements.
其他要求 Other requirements	加药后不影响浮选及压滤 No impact on flotation and filter press performance after dosing.	加药后不影响浮选及压滤 No impact on flotation and filter press performance after dosing.

项目 Project	助滤剂 Filter aid
应用环节 Application Stag	精矿压滤机 Concentrate Filter Press
精矿压滤机机型号 Concentrate filter model	FFP2512-60/60 M50 PP/TPV
设备台数 Quantity of equipment	4
过滤面积 Filtering area (m2)	576
给矿压力 Designed Feeding pressure (KPa)	600
循环时间 Cycle time(min)	≤9
给料浓度 Feed density (%)	74-75
给矿粒度 Feed particle size (P80 um)	40-45
给矿主要成分 Feed components (%)	铁精矿、品位 62-65.5% Iron concentrate, grade 62-65.5%
当前助滤剂名称 Incumbent filter aid	硫酸铝 Aluminium Sulphate
当前单耗 Incumbent Unit consumption (kg/dry ton)	0.5 (压滤精矿)
台时 Throughput(t/h)	≥280
滤饼水份 Filter cake moisture (%)	≤9
滤布使用周期 Filter Cloth Service Life	≥ 6000 循环 cycle
供货形式 Supply Format	直接注入储罐 Direct Delivery to Storage Tank
安全与环保标准 Safety and environmental protection standards	符合澳标、WHS、SDS 及 AICIS 要求 Meets applicable Australian Standards, WHS, SDS and AICIS requirements.
其他要求 Other requirements	不能对浮选作业造成影响 It must not affect the flotation operation.

Quality Assessment Requirements

质量考核要求

1. Assessment Requirements for Filter Aid

助滤剂考核要求

(a) During industrial trials, if adjusting the dosage of the chemical agent fails to simultaneously meet all the parameters specified in the technical requirements, the industrial trial shall be deemed to have failed. The product shall not meet the procurement criteria.

工业试验过程中，若通过调整药剂添加量仍不能同时满足技术要求中的各项指标，视为工业试验不合格。不具备采购条件。

(b) Where there is a significant deterioration in filtration performance, and no improvement is achieved even after adjusting the dosage in accordance with the supplier' s instructions, 5 per cent of the settlement amount for that month shall be deducted for each such occurrence. (Excluding cases where the cause lies with the selected ore.)

当过滤效果明显恶化时，按供应商指导调整加药量后仍无法改善，每发生 1 次，扣减当月结算金额的 5%。（入选矿石原因影响除外）

(c) If the filtration performance deteriorates significantly over a consecutive 24-hour period and the situation cannot be rectified even after adjusting the dosage in accordance with the supplier' s

instructions, 20% of the settlement amount for that month shall be deducted for each such occurrence. (Excluding cases where the cause is attributable to the selected ore.)

若连续 24 小时过滤效果明显恶化，按供应商指导调整加药量后仍无法改善，每发生 1 次，扣减当月结算金额的 20%。（入选矿石原因影响除外）

(d) If the filtration performance deteriorates significantly for 72 consecutive hours and the situation cannot be rectified even after adjusting the dosage in accordance with the supplier's instructions, 100% of the settlement amount for that month shall be deducted for each such occurrence. (Excluding cases where the cause is attributable to the selected ore.)

若连续 72 小时过滤效果明显恶化，按供应商指导调整加药量后仍无法改善，每发生 1 次，扣减当月结算金额的 100%。（入选矿石原因影响除外）

(e) If the filtration performance deteriorates significantly over several consecutive days and the supplier is unable to provide effective remedial measures, the supply contract shall be terminated. (Excluding cases where the cause is attributable to the selected ore.)

若连续多日过滤效果明显恶化，且供应商无法提供有效的解决措施，则终止供货合同。（入选矿石原因影响除外）

(f) If increasing the dosage of the reagent significantly affects flotation performance, and the supplier is unable to provide an effective solution,

the supply contract shall be terminated. (Excluding cases where the cause lies with the ore being processed.)

若加大剂用量后明显影响浮选效果，且供应商无法提供有效的解决措施，则终止供货合同。（入选矿石原因影响除外）

(g) Should the filtration or flotation performance deteriorate due to changes in the ore, the supplier should also provide recommendations for adjustments and, where necessary, visit the site to resolve the issue based on the actual circumstances.

若由于矿石变化造成过滤、浮选效果恶化，供应商也应给出调整意见，必要时到现场根据实际情况解决问题。

2. Assessment Requirements for Flocculants and Coagulation

Accelerators

絮凝剂及促凝剂考核要求

(a) During industrial trials, if adjusting the dosage of the chemical agent fails to simultaneously meet all the parameters specified in the technical requirements, the industrial trial shall be deemed to have failed. The product shall not meet the procurement criteria.

工业试验过程中，若通过调整药剂添加量仍不能同时满足技术要求中的各项指标，视为工业试验不合格。不具备采购条件。

(b) Where the total suspended solids (TTS) content in the tailings thickener overflow water exceeds 300 mg/L, and water quality fails to improve even after adjusting the chemical dosage, for each occurrence, the supplier's settlement amount for that month shall be reduced by the average daily settlement amount.

当尾矿浓缩溢流水悬浮物含量 $TTS > 300 \text{ mg/L}$ ，调整加药量后水质仍无法改善，每发生 1 次，扣减供应商当月平均一天的结算金额。

(c) Where the total suspended solids (TTS) content in the tailings thickener overflow water exceeds 1,000 mg/L, and water quality fails to improve even after adjusting the chemical dosage in accordance with the supplier's guidance, 5% of the settlement amount for that month

shall be deducted for each occurrence. (Excluding cases where the cause is attributable to the ore being processed.)

当尾矿浓缩溢流水悬浮物含量 TTS > 1000 mg/L, 按供应商指导调整加药量后水质仍无法改善, 每发生 1 次, 扣减当月结算金额的 5%。(入选矿石原因影响除外)

(d) If the total suspended solids (TTS) content in the tailings thickener overflow water exceeds 1,000 mg/L for 72 consecutive hours, and the water quality fails to improve even after adjusting the chemical dosage in accordance with the supplier' s guidance, 20% of the settlement amount for that month shall be deducted for each occurrence.

(Excluding cases where the cause is attributable to the ore being processed.)

若连续 72 小时尾矿浓缩溢流水悬浮物含量 TTS > 1000 mg/L, 按供应商指导调整加药量后水质仍无法改善, 每发生 1 次, 扣减当月结算金额的 20%。(入选矿石原因影响除外)

(e) If increasing the dosage of a chemical significantly affects flotation or filter press performance, and the issue cannot be resolved in accordance with the supplier' s guidance, 50% of the settlement amount for that month shall be deducted for each occurrence.

(Excluding cases where the cause is attributable to the ore being processed.)

若增加药剂用量后明显影响浮选及压滤效果，按供应商指导意见无法解决问题，每发生 1 次，扣减当月结算金额的 50%。（入选矿石原因影响除外）

(f) If, for several consecutive days, the total suspended solids (TTS) content in tailings thickener overflow water exceeds 1,000 mg/L, and if increasing the dosage of chemicals significantly impairs flotation and filter press performance, and the supplier is unable to propose effective remedial measures, the supply contract shall be terminated. (Excluding cases where the cause is attributable to the ore being processed.)

若连续多日出现尾矿浓缩溢流水悬浮物含量 $TTS > 1000 \text{ mg/L}$ ，且增加药剂用量后明显影响浮选及压滤效果，供应商无法提出有效解决措施，则终止供货合同。（入选矿石原因影响除外）

(g) Should the water quality deteriorate due to changes in the ore, the supplier should also provide recommendations for adjustments and, where necessary, visit the site to resolve the issue based on the actual circumstances.

若由于矿石变化造成水质恶化，供应商也应给出调整意见，必要时到现场根据实际情况解决问题。