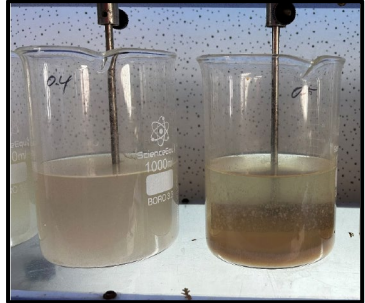
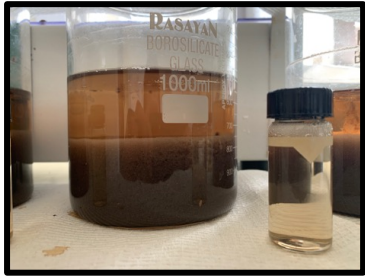







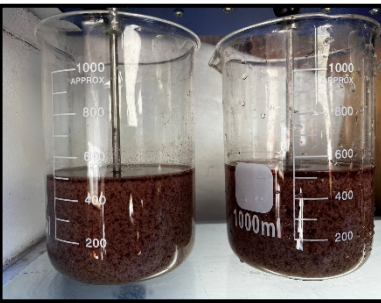


TANAFLOC
black wattle extracts

CASE STUDIES ACROSS INDUSTRIES

Sector	Application	Dosage (mg/L)	Results	Benefits	Photos
Dairy Industry - Australia	Wastewater treatment – 50 m ³ /h; COD 2900 mg/L; Turbidity 555 NTU; TDS 2200 mg/L; O&G 53 mg/L.	500 ppm Tanfloc SG 20%; 500 ppm Cationic Polymer EM640CT 0.42%	38% COD, 99% TN, 25% TP, 76% Turbidity, 40% TDS, 60% Oil and Grease removal.	Minimised wastewater salinity and total dissolved solids, ensuring efficient operation of the DAF system. Great performance in Nitrogen removal; The use of Tanfloc as the coagulant/flocculant ensured that the metal content and salinity of the wastewater were within the required margins.	
Red Meat Industry	Wastewater treatment – 128 m ³ /h; BOD 1660 mg/L; COD 3740 mg/L; TN 240 mg/L; TP 42.2 mg/L	600 ppm Tanfloc SG 20%; 0.3 mg/L Cationic Polymer EM640CT 0.42%	92% TSS removal; 42% TN removal; 23% TP removal; 72% BOD removal.	Eliminated the need for additional coagulants/flocculants; Increased carbon content in dewatered sludge, potentially enhancing biogas production; Reduced operational costs of the Dissolved Air Flotation (DAF) unit. Simplified usage due to the product's liquid form, allowing direct dosing in the process.	
Sugar and Ethanol	Sugar cane washing water clarification	15 to 70 ppm Tanfloc SG 20%;	92% TSS removal	Maintains water pH without requiring alkaline agents; Speeds up the decantation process; Produces organic sludge suitable for soil disposal; Uses a biodegradable product; Reduces equipment corrosion compared to metal salts in conventional clarification processes;	
Sugar and Ethanol	Sugar cane Juice Clarification – ICUMSA Colour between 10000 and 15000	80 to 150 ppm Tanfloc SG 20%;	<200 ICUMSA Color Clarified	Accelerates decantation, boosting production rates; Improves cleaning of heaters and evaporators; Reduces sulphur levels; Lightens the colour of raw and floated sugar cane juice; Maintains sugar cane juice pH, avoiding the need for alkaline neutralizing agents.	

Textile Industry	Wastewater Treatment – 75 m ³ /h; 1123 mg/L COD; 349 Colour (Pt/Co); 10.5 pH	350 ppm Tanfloc SG 20%; + 1 ppm Anionic Polymer AN934SH 0.5%	79% COD Reduction; 95% Colour removal.	Uses a liquid chemical product; Applies a biodegradable product suitable for secondary treatment with activated sludge; Eliminates the need for decolouring agents; Allows reuse of treated water for equipment and floor washing; Outperforms Alum in terms of treatment effectiveness.	
Oil & Gas	Wastewater Treatment – 300 m ³ /h; 282 mg/L COD; 38 mg/L H ₂ S; 185 mg/L O&G.	15 ppm Tanfloc SG 20%;	50% COD removal; 71% H ₂ S removal; 93% Oil and Grease removal.	75% decrease in chemical handling, from 180 to 45 tonnes per year; 13.1% yearly cost saving on chemicals; Enhanced reduction of COD, H ₂ S, and O&G by 12%, 16%, and 18% respectively, compared to alum; More efficient use of labour; Production of readily biodegradable sludge; Improved health and safety due to the use of a less aggressive product.	
Poultry	Wastewater Treatment - 70 m ³ /h; 2912 mg/L COD 178 mg/L O&G	270 ppm Tanfloc SG 20%; 2 ppm Anionic Polymer AN934SH 0.5%	80,2% COD reduction; 88,7% Oil and Grease reduction;	<ul style="list-style-type: none"> •Reducing handling of 32,2 tonnes/month of powder chemical products; •40.7% Total Cost Reduction (Alum, Soda Ash and Labour) •Rationalised labour use; •Generation of organic sludge for unrestricted use in farming land; •Use of a biodegradable product compatible with the subsequent secondary treatment (activated sludge); •Operator health and safety improvement by eliminating/reducing handling of chemical products; •Eliminating the use of alkalisng agents. 	

TANAFLOC
black wattle extracts

Flocculation Auxiliary	Wastewater Treatment – 43ML per day. 6.9 pH.	2 ppm Tanfloc SG 20%	31.7% reduction in Aluminium Sulphate consumption; 42.3% reduction on Alkalisng agent.	Reduction of aluminium residuals in treated water, ensuring compliance with current local legislation; Increased decantation efficiency allows for higher water treatment plant (WTP) flow; Longer intervals between filter backwashes; Reduced turbidity and colour in treated water; Generation of sludge with low residual aluminium content; 25.7% savings in treatment costs.	
Domestic Sewage	Wastewater Treatment – 9 ML per day; pH 6.9; BOD 700 mg/L COD 1252 mg/L; Turbidity 320 NTU.	150 ppm Tanfloc SG 20%	95% BOD removal; 94% COD removal; 97% Turbidity removal.	Increased removal efficiencies of 24% for BOD, 23% for COD, and 57% for turbidity; Generation of biodegradable sludge suitable for unrestricted agricultural use or as fertiliser after pathogen stabilisation; Production of effluent with a final pH around 7.0, eliminating the need for pH correction before discharge; More efficient labour use through the addition of a single product in a simplified operation; Reduction or elimination of equipment and pipe corrosion caused by the use of iron chloride; Improved operator health and safety by using a product not classified as dangerous by the UN.	
Dairy Industry - Brazil	Wastewater Treatment – 50 m³/h; pH 12; COD 2120 mg/L	350 ppm Tanfloc SG 20%; 3 ppm Anionic Polymer AN934SH 0.5%	75% COD removal; 31.5% annual savings (Ferric Chloride, Lime, Polymer, Sludge disposal)	20% reduction in sludge volume produced; Reduction of dewatering unit operation time; Production of organic sludge suitable for use as fertiliser; Elimination of lime usage; Increased treatment efficiency; Use of a biodegradable product, avoiding interference with biological treatment; Elimination of iron residue in both treated effluent and sludge; More efficient use of labour.	

Exceptional Treatment Efficiency

Tanfloc achieves up to 99% reduction in Total Nitrogen, up to 97% reduction in Turbidity, and up to 94% COD reduction, showcasing outstanding effectiveness in removing key pollutants from wastewater. This makes it ideal for any industry facing stringent environmental compliance requirements.

Significant Cost Savings

With Tanfloc, industries can experience up to 40.7% in total treatment cost savings (chemicals, labour, sludge disposal, maintenance, energy savings). This positions Tanfloc as a cost-effective solution that not only meets but exceeds environmental and operational efficiency standards.

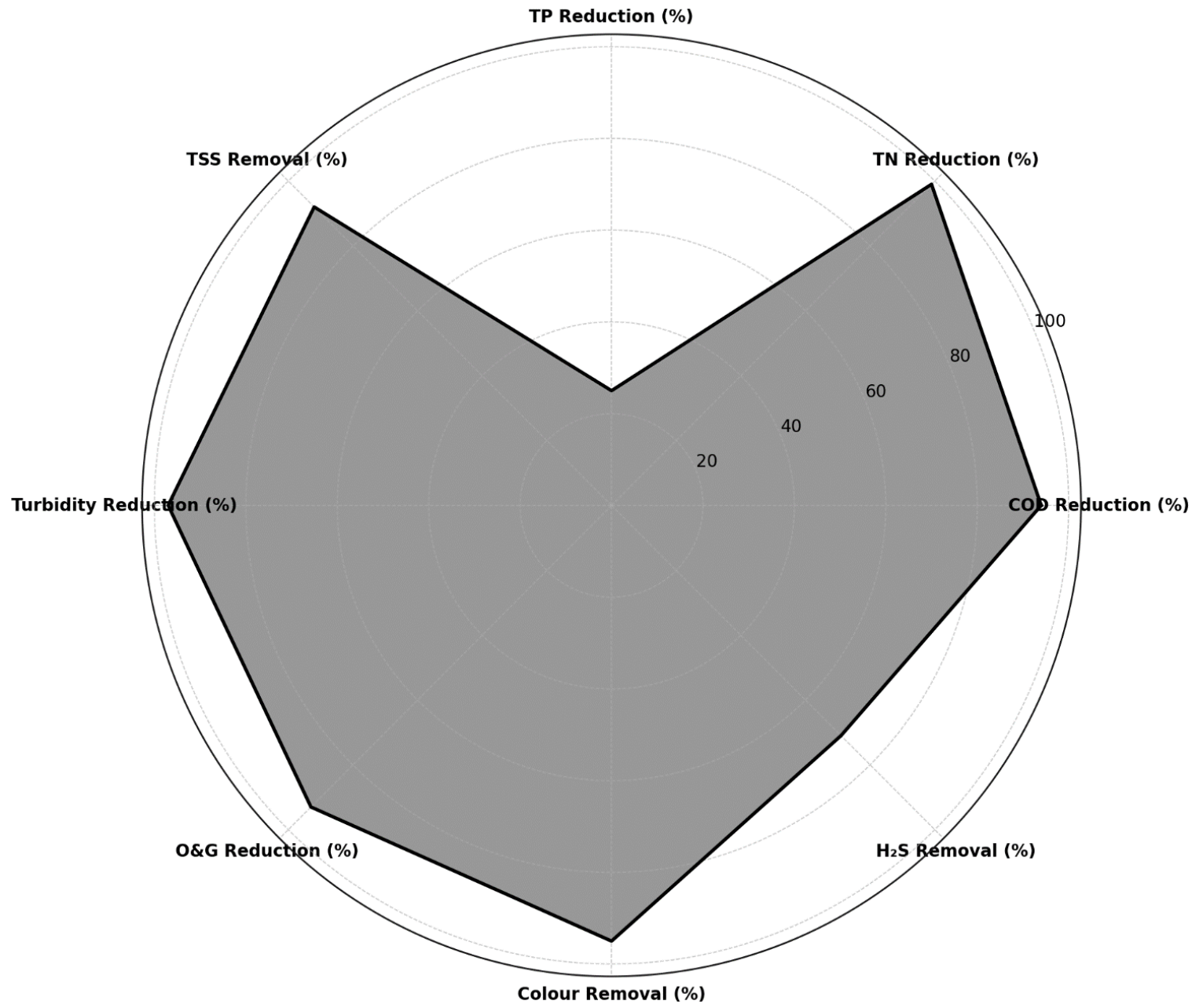
Environmental Sustainability and Carbon Negative

Tanfloc is a carbon-negative product, meaning its use can help reduce the carbon footprint of wastewater treatment processes compared to traditional inorganic chemicals. The product is biodegradable, which can be safely used in agriculture or biodigested to produce biogas, thus promoting circular economy practices.

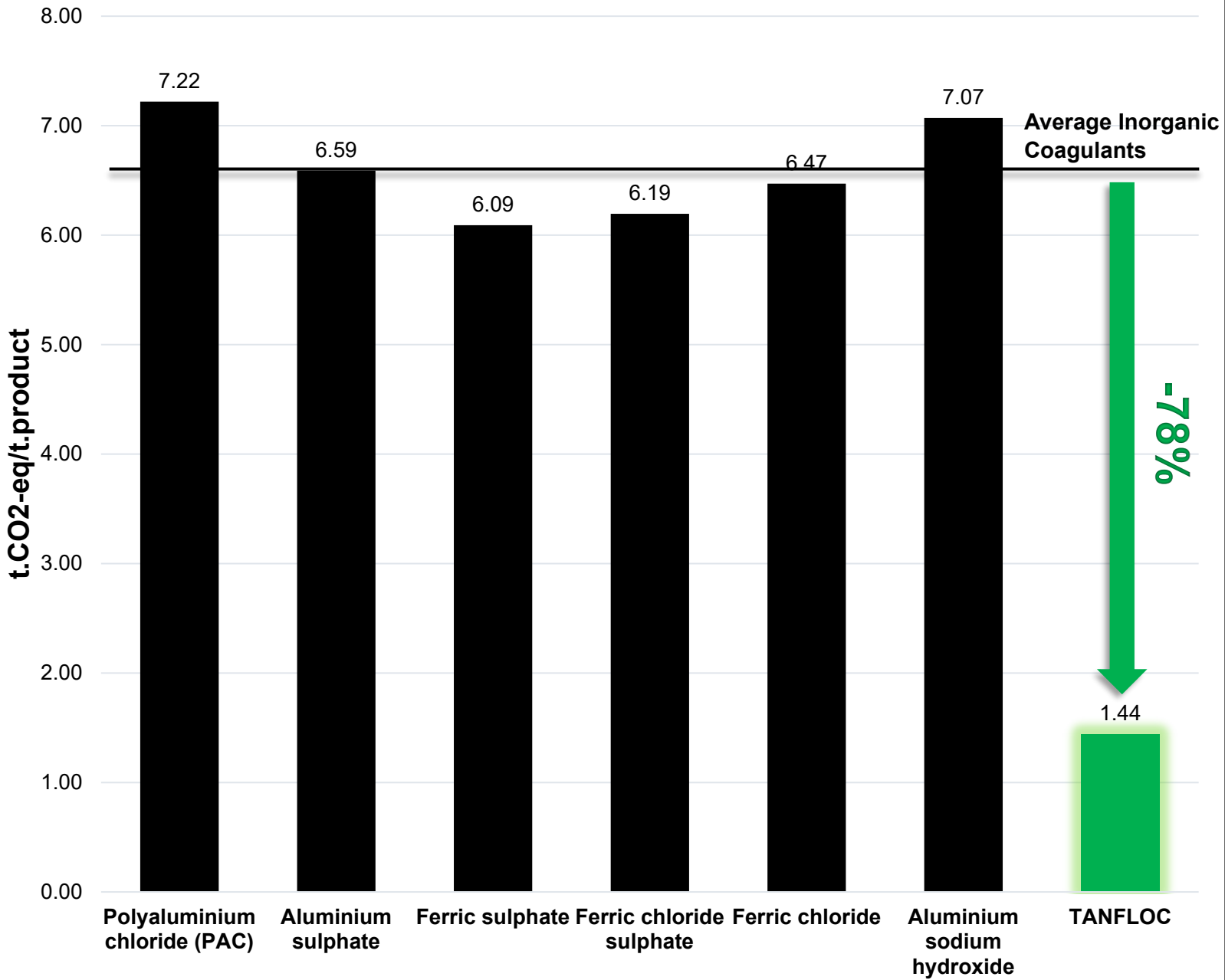
Safe for Operators

The natural, plant-based formulation of Tanfloc is not only less corrosive but also non-toxic, ensuring safer working conditions for operators. This aspect of Tanfloc significantly reduces the risks associated with handling and storing harsh chemicals, making it a safer and more sustainable choice for wastewater treatment.

PEAK PERFORMANCE OF TANFLOC ACROSS INDUSTRIES – THE “HEART CHART”



TOTAL CO₂ EMISSIONS PER TONNE OF COAGULANT/FLOCCULANT



More information at

www.tanaflocaustralia.com



Tanafloc Nursery – RS, Brazil