

HOW WATCH AMIN WORKS

WATCH AMIN

WATCH AMIN® products are proprietary formulations of a balanced blend of components that include protective (filming) polyamines, polycarboxylates (dispersants), and volatile (alkalinizing) amines. These work synergistically to provide optimum protection and passivation of all ferrous and non-ferrous metal surfaces across the entire water & steam circuit.

WATCH AMIN® forms a monomolecular, continuous, hydrophobic protective film on metal surfaces, acting as a barrier between water and metal to prevent corrosion.

Using **WATCH AMIN® "All-in-One"** to treat water-and steam-carrying systems-such as water/steam and heating circuits-offers many advantages over conventional conditioning, which often requires several substances to be added at various locations and frequent monitoring.

In the boiler water of steam generators, the polyelectrolytes have a synergistic effect. Polycarboxylates (as sodium salts) cause alkalinization at all temperatures by hydrolysis. As polyelectrolytes, they have greater affinity for bivalent cations (e.g., Fe^2 or Ca^2), acting like a weak acidic ion exchanger. Stable calcium or iron salts are formed and blown down. At stoichiometric limits, only residual hardness remains in solution; any additional quantities are sequestered, suspended, and dispersed-preventing crystallization and scale formation. The polyamines have a greater propensity to be adsorbed at interfaces.

In addition to the corrosion-protective effect of the film, **WATCH AMIN®** also prevents calcium carbonate crystals from growing on material surfaces, especially in heat-transfer areas. Corrosion products transported into the boiler are prevented from accumulating, and existing deposits can be gently removed.

In steam generators, warm and hot water networks, superheaters, turbines, and cooling systems, **WATCH AMIN®** is an efficient, economical, and ecological solution to the difficult problem of corrosion and scaling.

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WATCH WATER

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