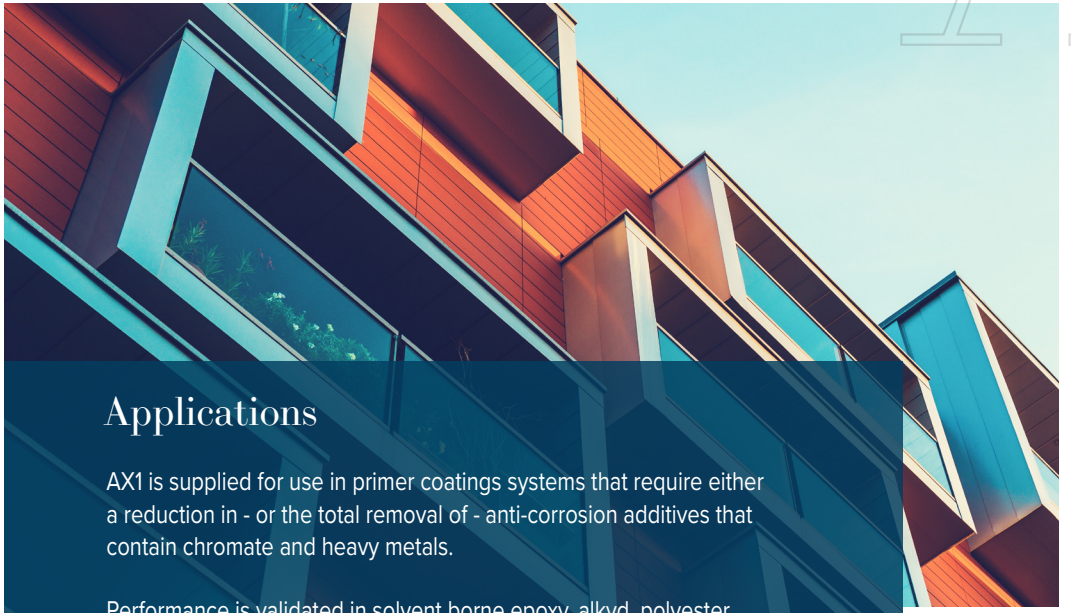
HEXIGONE

TECHNICAL DATA SHEET

EXTRA FINE AX1



Applications

AX1 is supplied for use in primer coatings systems that require either a reduction in - or the total removal of - anti-corrosion additives that contain chromate and heavy metals.

Performance is validated in solvent borne epoxy, alkyd, polyester, polyurethane and acrylic resin systems.

AX1 may be suitable for other coatings and corrosion defense uses, however clients are advised to verify individual performance in other resin systems and applications.

INTELLI-ION®

AX1 is part of Hexigone's Intelli-ion® corrosion inhibitor range. AX1 is an acidic, organic, chemically intelligent anti-corrosive additive that is supplied in an off-white powder form.

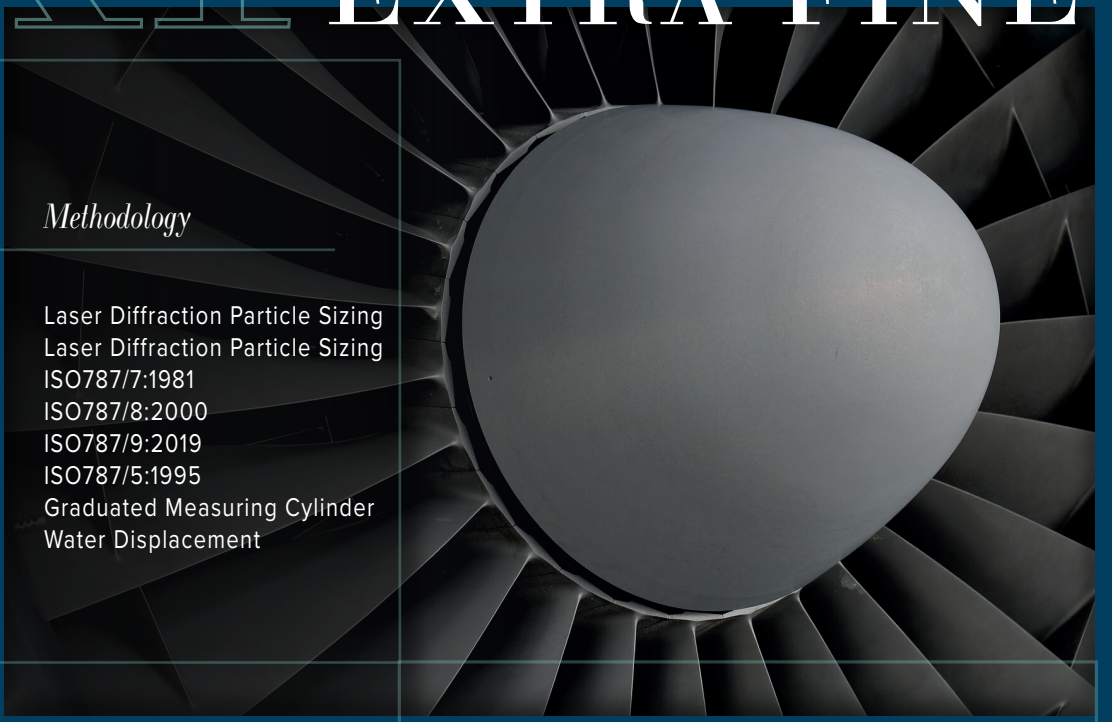
Benefits for Coatings Manufacturers:

- Coatings with superior anti-corrosion performance for your customers
- The chance to remove toxic warning labels from your products
- Reduced toxic chemical handling risks at your production facilities
- Distinctive new sustainability credentials for your product portfolio
- Cost engineering with hybrid AX1 and zinc phosphate formulations
- Cost is not driven by commodity metals market pricing

Available Packages

AX1 is available in powder form in 20kg moisture resistant bags. 250g or 500g powder samples are also available upon request.

AX1 EXTRA FINE



Physical & Chemical Properties

Test	*Result*	*Unit*	*Methodology*
Particle Size D50	6±2	µm	Laser Diffraction Particle Sizing
Particle Size D10	<1-2	µm	Laser Diffraction Particle Sizing
Wet Screen Residue (38 µm mesh)	0.26	%	ISO787/7:1981
Soluble Matter	7.75	%	ISO787/8:2000
pH	1.7	N/A	ISO787/9:2019
Oil Absorption	51	g/100g	ISO787/5:1995
Powder Tapped Density	0.59	g/cm3	Graduated Measuring Cylinder
Specific Gravity	1.35	N/A	Water Displacement

The results shown have been produced and verified by approved testing laboratories.

Directions for Use

Incorporation: AX1 can be incorporated via a let-down formula or directly into coatings by high-speed dispersion. AX1 can be milled through a premix stage if required. Optimum loadings are resin type and film thickness dependent and are between 2 – 7% by weight. Please consult with Hexigone for specific system loadings advice. AX1 may require additional formulation optimisation in some resin types and in waterborne coatings, including dispersant and surfactant selection.
Testing Protocol: Test AX1 containing primers corrosion resistance performance in the full coating system with the topcoat applied.

Safety & Handling

Please refer to the product's Material Safety Data Sheet (MSDS)

Contact

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Disclaimer