

Engineered Power and Energy Applications

with Vipel[®] technologies





✓ **Corrosion Leadership**

Vipele® resin technologies are leading the fight against corrosion around the world because corrosion is a priority at AOC.

✓ **Innovative Technology**

AOC chemists have created novel vinyl ester and unsaturated polyester technologies, that can meet specific engineering requirements.

✓ **World-Class Quality**

AOC-owned manufacturing facilities are ISO 9001:2000-certified and use proprietary control technology to ensure resin consistency.

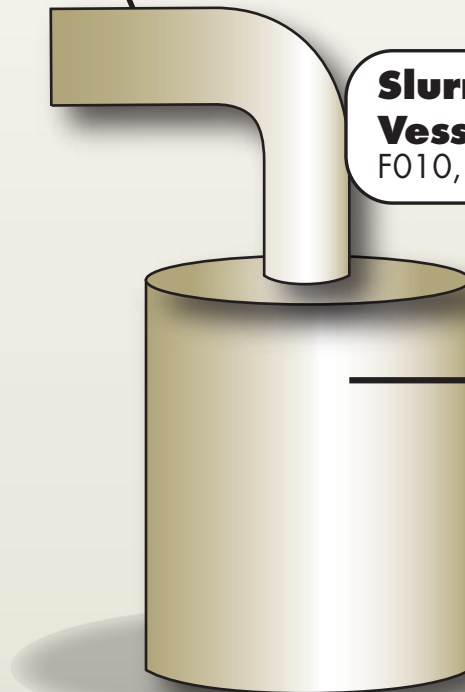
✓ **Solid Technical Support**

From fundamental troubleshooting to engineered solutions, the AOC Corrosion Team is ready to help ensure every project success.

Ductwork
K022-AC

Slurry Prep Vessels

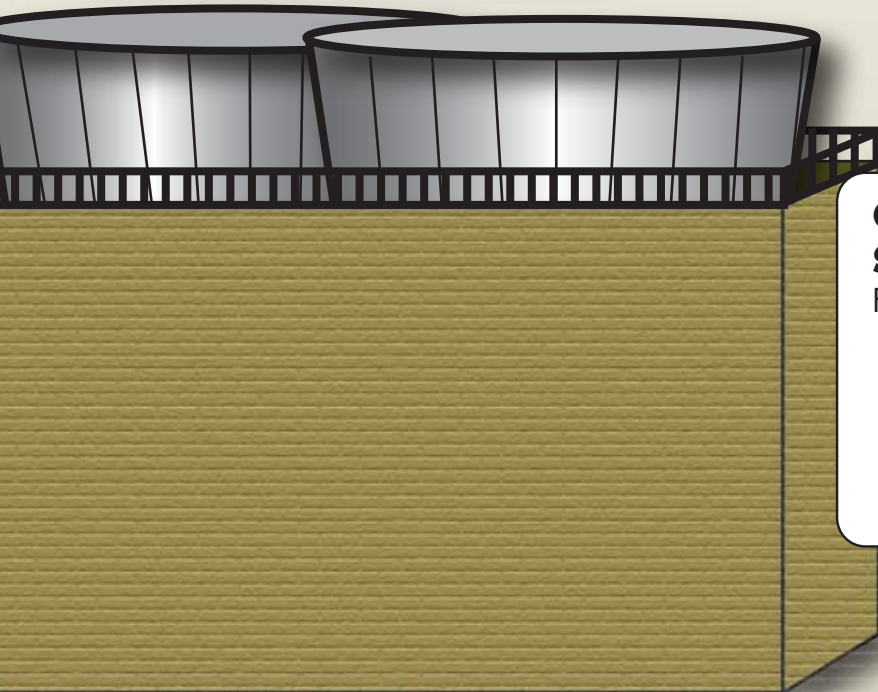
F010, F013, K022-AC



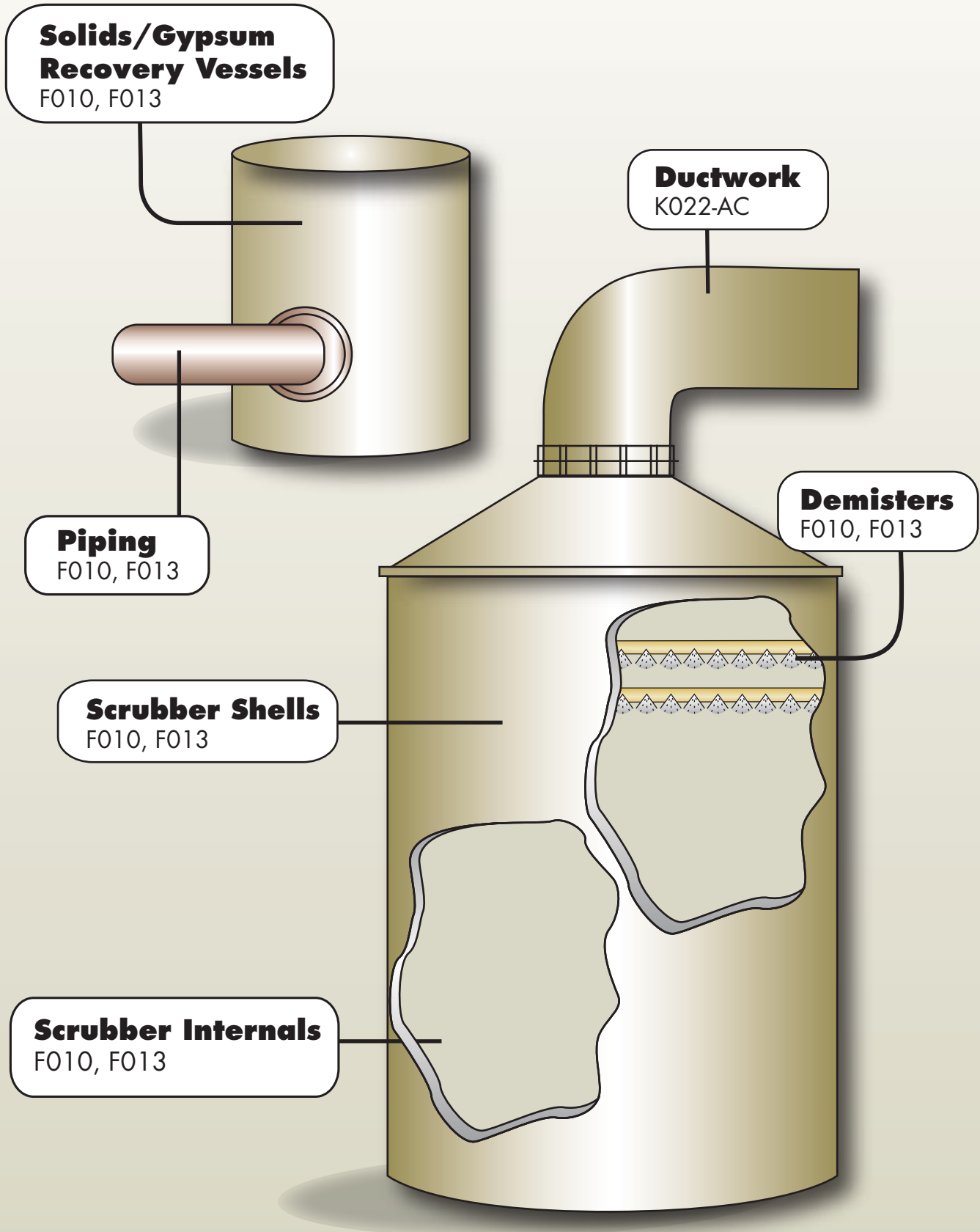
Cooling Water Systems

F701, F737, P706, P764

- Piping
- Tower components
- Grating, handrails, stairtreads



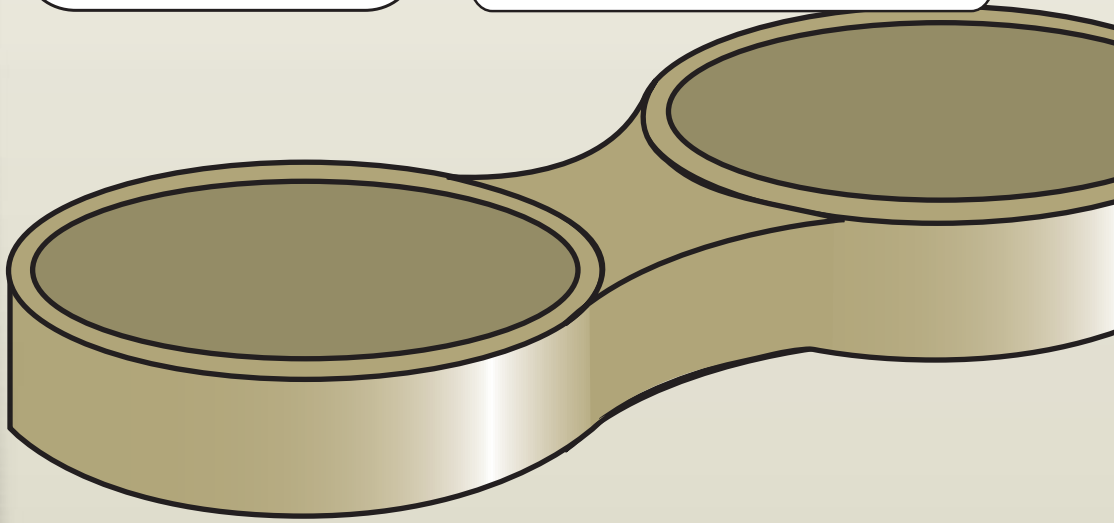
Where Vipel® goes to work in FGD and other power plant systems





Stack Liner
K022-AC, K095, F085

- Wastewater Treatment Systems**
F010, F013, F701, F737
- Piping
 - Clarifiers
 - Domes
 - Weirs, baffles, gates
 - Grating, handrails, stairtreads



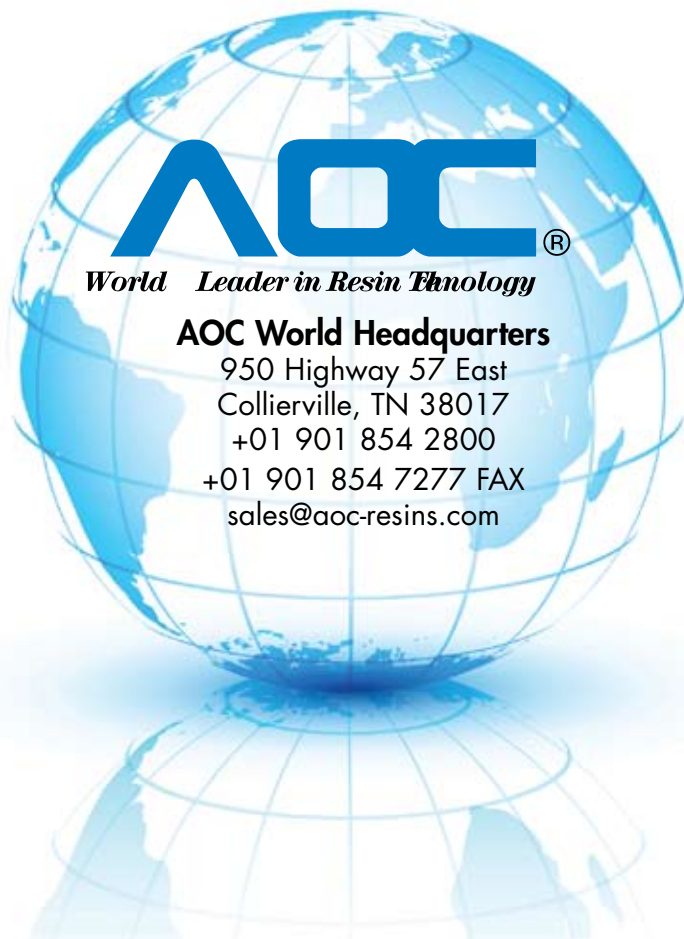
Cover Photos
(clockwise from upper left)
Stack liner section (Tri-Clor, Inc)
Cooling water pipe (PSEG Power, LLC)
Cooling water diffuser for LNG de-gasification (PITSA)
Grating/Handrails (Strongwell)

Vipel® Resin Overview

AOC's comprehensive family of Vipel® corrosion-resistant resins provides the optimum technology for long-term cost/performance in a wide range of corrosive environments.

Resin Type	Resin Series	Description
Bisphenol A Epoxy Vinyl Ester	F010	Good balance of corrosion resistance and processability. User friendly in both filament winding and hand lay-up applications.
	F013	Higher styrene content version of Vipel F010.
	F007	Lower VOC/HAP and higher heat distortion temperature version of Vipel F010.
	F017	Elastomeric bisphenol-A epoxy vinyl ester. For improved interlaminar adhesion and manufacturing composites that require extra flexibility.
	K022-AC	Fire retardant, brominated bisphenol-A epoxy vinyl ester. Excellent resistance to both acidic and alkaline environments, plus thermal mechanical properties. <i>Class I flame spread developed without synergists</i>
	K022-CC	Fire retardant brominated bisphenol-A epoxy vinyl ester. Excellent resistance to both acidic and alkaline environments, plus thermal mechanical properties. <i>Class I flame spread with 1.5% antimony trioxide</i>
	K022-CN	Fire retardant, brominated bisphenol-A epoxy vinyl ester. Used in the structural layer where resistance to acidic and caustic environments are needed. Contains antimony products. <i>Class I flame spread</i>
Epoxy Novolac Vinyl Esters	F085	Exceptional organic solvent resistance with improved high temperature properties.
	F086	Higher heat distortion temperature version of F085.
	K095	Fire retardant, epoxy novolac vinyl ester. Recommended in pulp and paper industry for severe corrosion applications. <i>Class I flame spread and smoke developed without synergists</i>
Bisphenol A Fumerate Polyester	F282	Excellent resistant to both acidic and alkaline environments. High monomer content and rigid.
Isophthalic Polyesters	F701	High molecular weight isophthalic/propylene glycol resin with broad chemical resistance at moderate temperatures and excellent processability.
	F713	High molecular weight, two stage terephthalic, unsaturated polyester resin with the wet out, cure and handling characteristics of general purpose resins.
	F737	Resilient isophthalic polyester. Designed for mild acidic environments.
Terephthalic Polyester (High cross-linked)	F774	Meets UL 1316 and UL 1746 parts II and III and Steel Tank Institute requirements.

*Tested according to ASTM E84



AOC[®]
World Leader in Resin Technology

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The World of AOC

AOC is a leading global supplier of resins, gel coats, colorants, additives and synergistic systems for composites and cast polymers. AOC products are manufactured in facilities strategically located in North America, Europe and Asia. AOC-owned manufacturing plants are ISO 9001:2000-certified, use proprietary technology to ensure resin batch-to-batch consistency, and follow Six Sigma-Lean principles for improved efficiency and quality. Whatever you are making or the manufacturing processes you use, discover AOC's innovative technology, process expertise and commitment to service by going to www.corrosionresins.com on the Internet.

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The internet's best resource on corrosion-resistant composites.