

Industrial Fiberglass Specialties, Inc.

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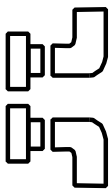
Product Bulletin

FRP Pipe Series Descriptions

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Resin Construction Type	Type of Liner	Resin for Liner	Resin for Structural
Series 1000 (Filament Wound)	40 mil veil and/or Nexus reinforced	Premium Grade Isophthalic Polyester	Premium Grade Isophthalic Polyester
Series 1000-SLIP (Filament Wound)	20 mil veil and/or Nexus and 40 mil chopped strand reinforced	Premium Grade Terephthalic Polyester	Premium Grade Terephthalic Polyester
Series 1000-VEP (Filament Wound)	20 mil veil and/or Nexus reinforced	Premium Grade Vinyl Polyester	Premium Grade Vinyl Polyester
Series 1002 (Filament Wound)	10 mil veil and 40 mil chopped strand reinforced	Premium Grade Isophthalic Polyester	Premium Grade Isophthalic Polyester
Series 1200 (Filament Wound)	Resin Rich	Utility Grade Epoxy	Utility Grade Epoxy
Series 1200-FR (Filament Wound)	Resin Rich	Premium Grade Fire Retardant Epoxy	Premium Grade Fire Retardant Epoxy
Series 1500 (Filament Wound)	40 mil veil and/or Nexus reinforced	Premium Grade Vinylester	Premium Grade Vinyl Polyester or Isophthalic Polyester
Series 1500-20 (Filament Wound)	20 mil veil and/or Nexus reinforced	Premium Grade Vinylester	Premium Grade Vinyl Polyester or Isophthalic Polyester
Series 1500-A (Filament Wound)	50 mil Nexus reinforced	Premium Grade Abrasion Resistant Vinylester	Premium Grade Vinyl Polyester or Isophthalic Polyester
Series 1500-NSF (Filament Wound)	20 mil veil and/or Nexus reinforced	Premium Grade NSF Potable Water Approved Vinylester	Premium Grade Vinyl Polyester or Isophthalic Polyester
Series 1502 (Filament Wound)	10 mil veil and 40 mil chopped strand reinforced	Premium Grade Vinylester	Premium Grade Vinyl Polyester or Isophthalic Polyester
Series 1600 (Filament Wound)	Resin Rich	Fire Retardant Phenolic	Fire Retardant Phenolic



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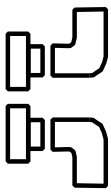
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Resin Construction Type	Type of Liner	Resin for Liner	Resin for Structural
Series 1900 (Filament Wound)	40 mil veil and/or Nexus reinforced	Premium Grade Fire Retardant Vinylester	Premium Grade Fire Retardant Polyester
Series 1900-20 (Filament Wound)	20 mil veil and/or Nexus reinforced	Premium Grade Fire Retardant Vinylester	Premium Grade Fire Retardant Vinylester
Series 2000 (Filament Wound)	20 mil veil and/or Nexus reinforced	Premium Grade Epoxy	Premium Grade Epoxy
Series 2000-M for heavy duty marine applications (Filament Wound)	20 mil veil and/or Nexus reinforced	Premium Grade Epoxy	Premium Grade Epoxy
Series 2030 (Filament Wound)	30 mil (20 mil veil/10 mil Nexus) reinforced	Premium Grade Epoxy	Premium Grade Epoxy
Series 2600 (Filament Wound)	20+ mil veil and or Nexus reinforced	Premium Grade Epoxy	Indspec's FIRE PRF ₂ Phenolic
Series 2840 (Filament Wound)	10 mil veil and 43 mil chopped strand reinforced	Premium Grade Furan	Premium Grade Epoxy
Series 4000 (Filament Wound)	40 mil veil and/or Nexus reinforced	Premium Grade Epoxy	Premium Grade Epoxy
Series 4000-A (Filament Wound)	40-50 mil veil and/or Nexus reinforced	Premium Grade Abrasion Resistant Epoxy	Premium Grade Epoxy
Series 4000-HCL (Filament Wound)	20 mil carbon or Halar veil and 30 mil Nexus reinforced	Premium Grade Heat Cured Epoxy with corrosion enhancer	Premium Grade Heat Cured Epoxy with corrosion enhancer
Series 4000-60 (Filament Wound)	60 mil veil and/or Nexus reinforced	Premium Grade Epoxy	Premium Grade Epoxy
Series 5000 (Filament Wound)	40-50 mil veil and/or Nexus reinforced	Premium Grade Vinylester	Premium Grade Vinylester
Series 5000-A (Filament Wound)	40-50 mil veil and/or Nexus reinforced	Premium Grade Abrasion Resistant Vinylester	Premium Grade Vinylester



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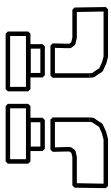
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Resin Construction Type	Type of Liner	Resin for Liner	Resin for Structural
Series 5000-A-60 (Filament Wound)	15-20 mil Nexus veil and 43 mil chopped strand mat reinforced	Premium Grade Armored Vinylester	Premium Grade Vinylester
Series 5000-AA (Filament Wound)	10 mil Nexus veil and 43 mil chopped strand mat reinforced, plus 10 mil external Nexus veil barrier	Premium Grade Armored Vinylester	Premium Grade Vinylester
Series 5000-G (Filament Wound)	10 mil carbon veil and 40 mil chopped strand reinforced	Premium Grade Epoxy Vinylester with Conductive Modifier	Premium Grade Epoxy Vinylester
Series 5000-METH (Filament Wound)	20 mil veil and/or Nexus and 40 mil chopped strand reinforced	Premium Grade High Performance Vinylester	Premium Grade High Performance Vinylester
Series 5000-NSF (Filament Wound)	40-50 mil veil and/or Nexus reinforced	Premium Grade NSF Approved Vinylester	Premium Grade Vinylester
Series 5000-SH for Sodium Hypochlorite service (Filament Wound)	50 mil Nexus reinforced	Premium Grade Vinylester with BPO/DMA Cure	Premium Grade Vinylester
Series 5000-T (Filament Wound)	20 mil veil and 43 mil chopped strand reinforced	Premium Grade "Toughened" Vinylester	Premium Grade "Toughened" Vinylester
Series 5000-U (Filament Wound)	unlined, resin rich	Premium Grade Vinylester	Premium Grade Vinylester
Series 5000-20 (Filament Wound)	20 mil veil and/or Nexus reinforced	Premium Grade Vinylester	Premium Grade Vinylester
Series 5000-20-NSF (Filament Wound)	20 mil veil and/or Nexus reinforced	Premium Grade NSF Approved Vinylester	Premium Grade Vinylester
Series 5002 (Filament Wound)	10 mil veil and 40 mil chopped strand reinforced	Premium Grade Vinylester	Premium Grade Vinylester



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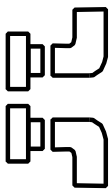
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Resin Construction Type	Type of Liner	Resin for Liner	Resin for Structural
Series 5070 (Filament Wound)	40-50 mil veil and/or Nexus reinforced	Premium Grade High Temperature Vinylester	Premium Grade Vinylester
Series 5072 (Filament Wound)	10 mil veil and 40 mil chopped strand reinforced	Premium Grade High Temperature Vinylester	Premium Grade Vinylester
Series 5400 (Filament Wound)	40-50 mil graphite veil and/or Nexus	Premium Grade Epoxy Phenol Novolac	Premium Grade Epoxy Phenol Novolac
Series 5600 (Filament Wound)	40-50 mil veil and/or Nexus reinforced	Indspec's FIRE PRF ₂ Phenolic	Indspec's FIRE PRF ₂ Phenolic
Series 5700 (Filament Wound)	40-50 mil veil and/or Nexus reinforced	Premium Grade High Temperature Vinylester	Premium Grade High Temperature Vinylester
Series 5700-HCl (Filament Wound)	20-30 mil carbon/veil and 30 mil chopped strand reinforced	Premium Grade High Temperature Vinylester	Premium Grade High Temperature Vinylester
Series 5702 (Filament Wound)	10 mil veil and 40 mil chopped strand reinforced	Premium Grade High Temperature Vinylester	Premium Grade High Temperature Vinylester
Series 5750 (Filament Wound)	10-20 mil veil and 40 mil chopped strand reinforced	Premium Grade High Temperature Vinylester	Premium Grade High Impact Resistant Vinylester
Series 5760 (Filament Wound)	40-50 mil veil and/or Nexus reinforced	Premium Grade High Temperature Vinylester	Indspec's FIRE PRF ₂ Phenolic
Series 5784 (Filament Wound)	10 mil Nexus and 40 mil chopped strand reinforced	Premium Grade High Temperature Vinylester	Premium Grade "Toughened" Vinylester
Series 5790 (Filament Wound)	40-50 mil veil and/or Nexus reinforced	Premium Grade High Temperature Vinylester	Premium Grade Fire Retardant Vinylester



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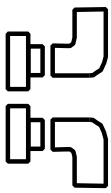
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Resin Construction Type	Type of Liner	Resin for Liner	Resin for Structural
Series 5790-N (Filament Wound)	40-50 mil veil and/or Nexus reinforced	Premium Grade High Temperature Fire Retardant Vinylester	Premium Grade High Temperature Fire Retardant Vinylester
Series 5790-6 (Filament Wound)	50 mil veil and/or Nexus reinforced	Premium Grade High Temperature Vinylester	Premium Grade Fire Retardant Vinylester and Indspec's FIRE PRF, Phenolic
Series 5792 (Filament Wound)	10 mil veil and 40 mil chopped strand reinforced	Premium Grade High Temperature Vinylester	Premium Grade Fire Retardant Vinylester
Series 5792-N (Filament Wound)	10 mil veil and 40 mil chopped strand reinforced	Premium Grade High Temperature Fire Retardant Vinylester	Premium Grade High Temperature Fire Retardant Vinylester
Series 5800-HCL (Filament Wound)	30 mil carbon veil and 40 mil chopped strand reinforced	Premium Grade Furan	Premium Grade Furan
Series 5900 (Filament Wound)	40 mil veil and/or Nexus reinforced	Premium Grade Fire Retardant Vinylester	Premium Grade Fire Retardant Vinylester
Series 5900-G (Filament Wound)	20 mil carbon veil and 30 mil chopped strand reinforced	Premium Grade Fire Retardant Vinylester with Conductive Modifier	Premium Grade Fire Retardant Vinylester
Series 5900-GG (Filament Wound)	20 mil carbon veil and 30 mil chopped strand reinforced	Premium Grade Fire Retardant Vinylester with Conductive Modifier	Premium Grade Fire Retardant Vinylester with Carbon/Copper Rovings
Series 5900-H (Filament Wound)	20 mil Halar veil and 40 mil chopped strand reinforced	Premium Grade Fire Retardant Vinylester	Premium Grade Fire Retardant Vinylester
Series 5900-HT (Filament Wound)	50 mil carbon and Halar mat reinforced	ArmorCor Brominated Vinylester	Premium Grade Brominated Vinylester



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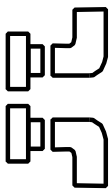
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Resin Construction Type	Type of Liner	Resin for Liner	Resin for Structural
Series 5900-NSF (Filament Wound)	40 mil veil and/or Nexus reinforced	Premium Grade NSF Potable Water Approved Vinylester	Premium Grade Fire Retardant Vinylester
Series 5900-20 (Filament Wound)	20 mil veil and/or Nexus reinforced	Premium Grade Fire Retardant Vinylester	Premium Grade Fire Retardant Vinylester
Series 5900-50 (Filament Wound)	20 mil veil and 30 mil Nexus reinforced	Premium Grade Fire Retardant Vinylester	Premium Grade Fire Retardant Vinylester
Series 5902 (Filament Wound)	10 mil veil and 40 mil chopped strand reinforced	Premium Grade Fire Retardant Vinylester	Premium Grade Fire Retardant Vinylester
Series 5950 (Filament Wound)	10 mil veil and 40 mil chopped strand reinforced	Premium Grade Vinylester	Premium Grade Fire Retardant Vinylester
Series 5960-G (Filament Wound)	10 mil carbon veil, 20 mil C-veil and 20 mil Nexus reinforced	Premium Grade Conductive Fire Retardant Vinylester	Indspec's FIRE PRF ₂ Phenolic
Series 5990-6 (Filament Wound)	10 mil veil and/or Nexus and 40 mil chopped strand reinforced	Premium Grade Fire Retardant Vinylester	Premium Grade Fire Retardant Vinylester and Indspec's FIRE PRF, Phenolic
Series 7000-M (Filament Wound)	20 mil carbon veil reinforced	Premium Grade Conductive Epoxy	Premium Grade Epoxy
Series 7100 (Filament Wound)	10 mil veil and/or Nexus and 40 mil chopped strand reinforced	Premium Grade Vinyl Polyester	Premium Grade Vinyl Polyester
Series 7100-20 (Filament Wound)	20 mil veil reinforced	Premium Grade Vinyl Polyester	Premium Grade Vinyl Polyester
Series 7100-20-20 (Filament Wound)	20 mil veil internal reinforced and 20 mil external barrier	Premium Grade Vinyl Polyester	Premium Grade Vinyl Polyester



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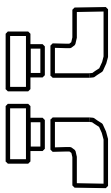
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Resin Construction Type	Type of Liner	Resin for Liner	Resin for Structural
Series 9000 (Filament Wound)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade Isophthalic Polyester	Premium Grade Isophthalic Polyester
Series 9000-50 (Filament Wound)	10 mil veil and 40 mil chopped strand reinforced	Premium Grade Isophthalic Polyester	Premium Grade Isophthalic Polyester
Series 9100 (Filament Wound)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade Vinylester	Premium Grade Vinyl Polyester or Isophthalic Polyester
Series 9100-A (Filament Wound)	10 mil Nexus and 90 mil chopped strand reinforced	Premium Grade Abrasion Resistant Vinylester	Premium Grade Vinyl Polyester or Isophthalic Polyester
Series 9190-A (Filament Wound)	20 mil Nexus and 90 mil chopped strand reinforced	Premium Grade Abrasion Resistant Vinylester	Premium Grade Fire Retardant Isophthalic Polyester
Series 9400 (Filament Wound)	100 mil graphite veil and/or Nexus	Premium Grade Epoxy Phenol Novolac	Premium Grade Epoxy Phenol Novolac
Series 9500 (Filament Wound)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade Vinylester	Premium Grade Vinylester
Series 9500-A (Filament Wound)	10 mil Nexus and 90 mil chopped strand reinforced	Premium Grade Abrasion Resistant Vinylester	Premium Grade Vinylester
Series 9500-A-160 (Filament Wound)	20 mil Nexus and 140 mil chopped strand reinforced	Premium Grade Abrasion Resistant Vinylester	Premium Grade Vinylester
Series 9500-BR for critical brine & chlor-alkali service (Filament Wound)	10 mil C-veil and 10 mil Nexus barrier, and 90 mil chopped strand reinforced	Premium Grade Vinylester	Premium Grade Vinylester
Series 9500-SH for Sodium Hypochlorite service (Filament Wound)	30 mil veil and 100 mil chopped strand reinforced	Premium Grade Vinylester with BPO/DMA Cure	Premium Grade Vinylester



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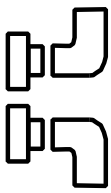
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Resin Construction Type	Type of Liner	Resin for Liner	Resin for Structural
Series 9500-T (Filament Wound)	20 mil Nexus and 90 mil chopped strand reinforced	Premium Grade Special High Impact Vinylester	Premium Grade Vinylester
Series 9500-200 for severe service applications (Filament Wound)	20 mil veil and 180 mil chopped strand reinforced	Premium Grade Vinylester	Premium Grade Vinylester
Series 9584 (Filament Wound)	20 mil veil and 90 mil chopped strand reinforced	Premium Grade "Toughened" Vinylester	Premium Grade "Toughened" Vinylester
Series 9600 (Filament Wound)	10 mil veil and 90 mil chopped strand reinforced	Indspec's FIRE PRF ₂ Phenolic	Indspec's FIRE PRF ₂ Phenolic
Series 9600-40-FR (Filament Wound)	10 mil veil and 40 mil chopped strand reinforced	Indspec's FIRE PRF ₂ Phenolic	Indspec's FIRE PRF ₂ Phenolic
Series 9700 (Filament Wound)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade High Temperature Vinylester	Premium Grade High Temperature Vinylester
Series 9700-200 for severe service applications (Filament Wound)	20 mil veil and 180 mil chopped strand reinforced	Premium Grade High Temperature Vinylester	Premium Grade High Temperature Vinylester
Series 9700-HCl (Filament Wound)	20 mil C-veil & carbon veil and 86-90 mil special "CR" chopped strand reinforced	Premium Grade High Temperature Vinylester	Premium Grade High Temperature Vinylester
Series 9710 (Filament Wound)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade High Temperature Vinylester	Premium Grade Isophthalic or Vinyl Polyester
Series 9750 (Filament Wound)	10 mil veil and/or Nexus and 90 mil chopped strand reinforced	Premium Grade High Temperature Vinylester	Premium Grade Vinylester



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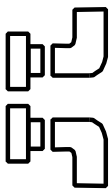
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Resin Construction Type	Type of Liner	Resin for Liner	Resin for Structural
Series 9790 (Filament Wound)	10 mil veil and/or Nexus and 90 mil chopped strand reinforced	Premium Grade High Temperature, Fire Retardant Vinylester	Premium Grade High Temperature, Fire Retardant Vinylester
Series 9790-200 (Filament Wound)	40 mil veil and/or Nexus and 160 mil chopped strand reinforced	Premium Grade High Temperature, Fire Retardant Vinylester	Premium Grade High Temperature, Fire Retardant Vinylester
Series 9800 (Filament Wound)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade Furan	Premium Grade Furan
Series 9800-FR (Filament Wound)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade Fire Retardant Furan	Premium Grade Furan
Series 9800-40 (Filament Wound)	10 mil veil and 40 mil chopped strand reinforced	Premium Grade Furan	Premium Grade Furan
Series 9860 (Filament Wound)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade Furan	Indspec's FIRE PRF ₂ Phenolic
Series 9860-FR (Filament Wound)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade Fire Retardant Furan	Indspec's FIRE PRF ₂ Phenolic
Series 9860-G-40 (Filament Wound)	10 mil carbon veil and 40 mil chopped strand reinforced	Premium Grade Conductive Fire Retardant Furan	Indspec's FIRE PRF ₂ Phenolic
Series 9900 (Filament Wound)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade Fire Retardant Vinylester	Premium Grade Fire Retardant Vinylester
Series 9960 (Filament Wound)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade Fire Retardant Vinylester	Indspec's FIRE PRF ₂ Phenolic



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Series 11000 (Contact Molded)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade Isophthalic Polyester	Premium Grade Isophthalic Polyester
Series 11100 (Contact Molded)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade Vinyl Polyester	Premium Grade Vinyl Polyester
Series 11500 (Contact Molded)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade Vinylester	Premium Grade Vinylester
Series 11600-LS (Contact Molded)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade Low Smoke, Fire Retardant, Low Smoke Toxicity Phenolic	Premium Grade Low Smoke, Fire Retardant, Low Smoke Toxicity Phenolic
Series 11700 (Contact Molded)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade High Temperature Vinylester	Premium Grade High Temperature Vinylester
Series 11800 (Contact Molded)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade Furan	Premium Grade Furan
Series 11900 (Contact Molded)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade Fire Retardant Vinylester	Premium Grade Fire Retardant Vinylester
Series 11900-LS (Contact Molded)	10 mil veil and 90 mil chopped strand reinforced	Premium Grade Low Smoke, Fire Retardant Vinylester	Premium Grade Low Smoke, Fire Retardant Vinylester