

ZINC & ZINC ALLOY

System Type	Process Name	Description / Key Features	Components	Ecology
Acid Zinc	ZETAPLUS 450 EU AS	Very ductile deposit, wide temperature range: 20 - 55°C	Base Brightener	No AOX, no OCB, low COD
	ZETAPLUS Merit AS AM	Bright, ductile, economical Ammonium or mixed electrolyte. Approvals: GMM	Make Up Maintenance	
	ZETANIUM 250 EU AS	Bright, ductile, economical electrolyte for rack	Base Brightener Replenisher	
	ZETAPLUS Insignia "E" AS AM	Bright, ductile, economical Potassium, Ammonium or mixed electrolyte	Make Up Maintenance	
	ZETAPLUS 600 EU AS	For steel castings. Wide temp. range: 20-45°C. Ductile. Approvals: Continental Teves	Base Brightener	No AOX
	ZETAPLUS 455 EU	Very ductile deposit, wide temperature range: 20 - 55°C	Base Brightener Replenisher Rack Replenisher Barrel	
	ZETANIUM 220 EU AS	Bright, ductile, economical electrolyte	Brightener Replenisher	
	ZETAPLUS 460 BF EU AS	Bright, ductile, potassium electrolyte	Base Brightener 460 Additive	No AOX, no boric acid
	ZETAPLUS 865 EU AS	For reel to reel	Base Brightener	

Sold in EU (Europe) AS (Asia) AM (Americas)

Beyond the Surface

	ZETAPLUS 869 EU	High speed, continuous Zn plating system for tubes, wire and steel strip (based on sulfates)	Base Brightener Replenisher	
	ZETAPLUS 465 BF EU	Bright, ductile, Potassium electrolyte, contains OCB	Base Brightener 465 Additive	No boric acid
Alkaline Zinc	PRIMION 240 EU AS AM	Uniformity of thickness, outstanding bright throwing power in LCD, can be used in a wide range of Zn (7-14 g/l). Approvals: Massey Ferguson, FAW, PSA, Renault, Valeo, Audi, TRW, Bajaj Auto, Royal Enfield, Suzuki, Tata, Volvo Group	Base Brightener Purifier1+Purifier2 or Replenisher + Purifier 2	EDTA free
	PRIMION 250 EU AS AM	Higher brightness than PRIMION 240. Approvals: Volvo Group	Base Brightener Purifier 2 Purifier 3	EDTA free
	PRIMION Contour Plus AM	Single component system, offers high efficiency and exceptional high/low thickness distribution	Additive	EDTA free
Tin Zinc	PERFORMA 530 EU	Neutral process for deposition of SnZn alloy 75/25	Base Brightener Stabilizer	
Zinc Cobalt	XENITH Pinnacle AM	Acid ZnCo. Versatile process for rack or barrel installations.	Make-up Maintenance Co-Replenisher	
	XENITH Paragon	Alkaline ZnCo. Versatile process for rack or barrel installations	Additive Stabilizer Replenisher	

Zinc Iron	PERFORMA 260 EU AS AM	Very good efficiency, metal distribution and brightness, easy waste treatment. Approvals: Renault, PSA, INA Schächler, Royal Enfield, Tata, Volvo Cars, Delphi, Ford, GM	Base Brightener Stabilizer Additive	Low organic content, amine free
	PERFORMA 261 EU	Very good cathode efficiency for barrel applications, wide range for Fe. Approvals: Renault, PSA, Volvo Cars	Stabilizer Base FE Additive RP	Low organic content, amine free
	PERFORMA 269 EU AM	Very stable process. Approvals: Renault, PSA, INA Schächler, Volvo Cars	Base Additive Brightener	
Zinc Nickel	PERFORMA 280.5 / 285 EU AS AM	State of the art alkaline ZnNi process. Cathode efficiency: 50 - 60%, with PMS/3S membrane 60 - 80%, best in barrel. Approvals: Böllhoff, CF Gomma, Garrett Honeywell, PSA, Renault, Renault Trucks, Audi, VW, Volvo Cars, Volvo Group, Massey Ferguson, FAW, Ford, Chrysler, GM	Base Ni-CPL Brightener Universal Additive LCD	Low amine content, with membrane: no CN or breakdown products

	PERFORMA 288 EU AS	Best in class, bendable alk. ZnNi process, good efficiency and thickness distribution. No burning. Uniform satin aspect and uniform alloy. Best in rack. Approvals: VW, Volvo	Base Ni-CPL Brightener MU Brightener R Purifier	With membrane: no CN or breakdown products
	PERFORMA 560 BF EU	Acid ZnNi process with superior LCD performance	Base Additive H Brightener	No boric acid
* AOX: absorbable organic halogen. OCB: ortho-chloro-benzaldehyde. COD: chemical oxygen demand				

TRIVALENT CHROME PASSIVATES

System Type	Process Name	Description / Key Features	Operation parameters	Ecology
ZnNi Transparent/ Blue Passivate	FINIDIP 128 EU AS AM	Blue-violet aspect, Co containing. Approvals: VW, Ford, PSA, Renault, Böllhoff, CF Gomma, Federal Mogul, FAW, Massey Ferguson, Renault Trucks, Audi, Toyota, Volvo Cars, GM	150 ml/l	
	FINIDIP SILVER Zn-Ni EU AS AM	Silver aspect	125 ml/l	
	FINIDIP 128.6 EU AS AM	Silver aspect	60 ml/l	Co free
	FINIDIP 128 CF EU AS AM	Blue aspect with excellent corrosion resistance. Approvals: Volvo Group	160 ml/l	Co free

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	FINIDIP 129 EU AS AM	Blue aspect with long life and excellent corrosion resistance. Can be applied on Zn deposits as well. Approvals: Audi, Akebono, GM	Barrel: 25 ml/l part A, 75 ml/l part B; Rack: 60ml/l part A, 70ml/l part B	
ZnNi Black Passivate	FINIDIP 728.2 EU AS AM	Deep black aspect, one product	80 – 100 ml/l	
	FINIDIP 728.3 EU AS AM	Deep black aspect, long bath life. Approvals: Ford, Volvo Group, Chrysler, GM	80 ml/l part A, 70 ml/l part B	Co free
ZnFe Black Passivate	LANTHANE BLACK 727 EU AS AM	For barrel. Exceptional appearance and black performance in only one product. Approvals: Volvo cars, Royal Enfield	250 ml/l	
	FINIDIP 726 EU AS AM	Exceptional appearance and performance. Approvals: PSA, Renault, INA Scheffler, VW, Volvo Cars, Delphi, Ford, GM	40 ml/l part A, 250 ml/l part B	
	FINIDIP 726.2 EU AS AM	Economic process with good appearance and performance. Approvals: Chrysler, GM	10 ml/l part A, 30 ml/l part B	
Zn Trivalent Yellow Passivate	LANTHANE YELLOW 334 EU AS AM	Green-yellow aspect, contains Se	140ml/l 334 part A, 12 ml/l 334 part B;	

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	LANTHANE YELLOW 335 EU AM	Red-yellow aspect, F and Se containing	100 ml/l 335 part A, 10 ml/l 334 part B	
	LANTHANE YELLOW 333 AM	Dye based yellow	100 ml/l part A, 1-2 ml/l part B (dye)	Se free
Zn Silica Passivate	LANTHANE TR-175 EU AS AM	Excellent corrosion resistance. Approvals: Massey Ferguson, VW, Garrett Honeywell, PSA, Renault, Audi, Autoliv, Toyota, VW, Bajaja, Royal Enfield, Denso, Honda, Isuzu, Mazda, Nissan, Volvo Group, Delphi, GM	100 – 150 ml/l part A, 80 – 100 ml/l part B	Low Co
	LANTHANE SI 360 CF EU	Excellent corrosion resistance, high tolerance to impurities	100 – 120 ml/l part A, 80 – 100 ml/l part B	
Zn Iridescent Passivate	LANTHANE 315 EU AS AM	Excellent corrosion resistance, high Co and Cr concentration. Approvals: PSA, Renault, TRW Lucas, Valeo, Autoliv, Continental Teves, INA Scheffler, Toyota, VW, Royal Enfield, Suzuki	150 – 180 ml/l	Low Co
	LANTHANE 316 EU AS AM	Excellent corrosion resistance, low temp. Approvals: Massey Ferguson, PSA, Renault, Audi, TRW, GM	100 – 200 ml/l	Low Co and Cr
	LANTHANE 317 CF EU	Excellent corrosion resistance, low temp., has non-CMR Fe inhibitor	35 – 150 ml/l	Co free

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	LANTHANE 317 EU	Excellent corrosion resistance, low temp., low make up, can be applied as blue or thick film, one product	30 – 50 ml/l blue, 80 – 120 ml/l iridescent	
Zn Blue Passivate	FINIDIP 124 EU AS AM	Deep blue aspect, 40-72 h. Approvals: VW, Royal Enfield	30 – 40 ml/l	
	LANTHANE BLUE 126 EU AS AM	Good corrosion resistance, 120 h barrel/144 h rack	60 – 100 ml/l	
	FINIDIP 145 EU AS AM	Long bath life, can be run as iridescent	20 – 50 ml/l blue, 100 - 200 ml/l iridescent	
	FINIDIP 140 EU	Deep blue aspect. Approvals: VW, Tata	50 – 80 ml/l	
	FINIDIP 137 CF EU	Deep blue aspect, contains F	25 - 70 ml/l	Co free
	LANTHANE Stellar AM	Pronounced Blue, 24-48 h	20 – 40 ml/l	
Zn Black Passivate	LANTHANE BLACK 707 EU AS AM	Very black aspect on rack alkaline Zn with good corrosion resistance. Approvals: Toyota, Royal Enfield, Volvo Group	120 ml/l part A, 150 ml/l part B, 5 ml/l part C	
	LANTHANE TR 185 JK AM	Uniform, stable, high performance black for barrel alkaline Zn. Approvals: Denso, Nissan, Toyota, Hyundai	100 ml/l part J, 80 ml/l part K	

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	LANTHANE TR 184 JK AM	Uniform, stable, high performance black for rack alkaline Zn. Approvals: Volvo Group	50 ml/l part J, 30 ml/l part K	
	LANTHANE BLACK 710 EU AS AM	Black aspect for all types of Zn. Corrosion resistance (48/72h). Approvals: VW, Nissan	100 - 200 ml/l part A, 15 - 30 ml/l part B, 3 - 6 ml/l part C	
	LANTHANE BLACK 750 EU	Economical process for acid zinc	120 – 180 ml/l A, 120 – 180 ml/l B	
	LANTHANE BLACK 760 CF EU	Co-free black passivate. Best with Post Dip 200	100 ml/l A, 70 ml/l B	Co free
Post Dip	POST DIP FT 190 EU AS AM	Post treatment to increase black aspect & corrosion resistance, best in barrel application. Approvals: VW, Denso, Nissan, Toyota	50 – 250 ml/l	
	POST-DIP 200 EU	Drop-free post dip particularly suited for black passivates	100-150 ml/l Post Dip 200, 20 ml/l Part A, 5 ml/l Part B rack only	CMR-free

TOP COATS & SEALERS

System Type	Process Name	Description / Key Features	Operation parameters	Ecology
Sealer / friction modified	FINILUBE BS 61 EU AS	CoF 0.10 – 0.14	10 – 50 %	
	FINILUBE BS 60 EU	CoF 0.08 – 0.13	20 – 50 %	

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	FINILUBE BS 58 AM	CoF 0.11 – 0.14. Approvals: HUF	10 – 30 %	
	FINIGARD 105 EU AS AM	CoF 0.12 – 0.18. Approvals: Ford, Böllhof, Renault, Renault Trucks, PSA, Valeo, Brose, VW, Opel, Nissan, Volvo Cars, Volvo Group, Delphi, GM	85 -100 %	
	FINIGARD 111 EU AS AM	CoF 0.08 – 0.13. Approvals: Ford, Brose, TRW, Audi, Volvo Cars, GM	90 -100 %	
	FOM ZINTHIUM 302 EU AS AM	CoF 0.12 – 0.18 for black aspect. Approvals: Renault, Renault Trucks, FCA	90 -100 %	
	FINIGARD 113 EU AS AM	CoF 0.10 – 0.16 on ZnNi for GM. Approvals: Chrysler, GM	85 -100 %	
	FINIGARD 150 EU AS AM	CoF 0.12 – 0.18 on steel and Aluminum. Approvals: Renault, Renault Trucks, PSA	80 -100 %	
	FINIGARD 109 EU AM	Made for thread forming screws. Approvals: Volvo Cars	90 – 100%	
	FINIGARD 107 EU AS	For self-tapping screws	100%	

System Type	Process Name	Description / Key Features	Operation parameters	Ecology
Top Coat non fastener applications	FINIGARD 460 / 460 GUF EU AS AM	Very high corrosion resistance, UV resistant, 80-90°C drying. Approvals: Massey Ferguson, VW, PSA, Brose, Renault, INA Schäffler, Toyota, Royal Enfield, Tata, Volvo Cars, Delphi, GM	25 - 50 %	
	FINIGARD 200A EU AS AM	Economical protection on Zn & alloys. Approvals: TRW Lucas, Continental Teves, Bajaj Auto, Akebono, GM	5 - 20 %	
	FINIGARD 450 EU AS	Easy to use. Good corrosion resistance, UV resistant. Approvals: VW	15 - 30 %	
	FINIGARD 401 / 401 GUF EU AS AM	Easy to use. Good corrosion resistance Approvals: PSA, Renault	15 - 30 %	
	FINIGARD 469 EU	Very high corrosion resistance, UV resistant, 80-90°C drying	15 - 30 %	
	FINIGARD 419 PH EU AS AM	High CoF, 0.19 +/- 0.04, high corrosion resistance, easy to strip, rack or barrel	15 – 40%	
	FINIGARD 503 EU AS	Very high corrosion protection with temperature stability. Exceptionally suitable for brake components	20 – 100%	

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	FINIGARD BLACK 740 EU AS	Intense black aspect, only for rack, for pure Zn and Zn alloy. Approvals: Royal Enfield	40 - 60 %	
	FINIGARD 205A EU AS AM	Corrosion inhibitor for unplated areas. Used alone or with Finigard 460/401	30 - 70 ml/l	
	PROTEX WG AM	Economical, easy to use, for additional corrosion protection on Zn and Zn alloy	5 – 20 %	
	FINIGARD 301 EU	Decorative aspect rack sealer. Reduced last drop, eliminates iridescence	15-20%	