



**PAN
CHEMICALS[®]**

wire drawing lubricants and coatings

ART
of lubrication



UNI EN ISO 9001:2008
Certified Company

We have dedicated our efforts and commitment to:

UNDERSTANDING	wire drawing lubrication wire drawing processes specific Customer problems and requirements
DEVELOPING	new products and solutions for the wire industry clean products and processes ecological lubricants
PROMOTING	new technologies in the wire production environmentally safe technologies
PROPOSING	highest quality drawing lubricants and coatings state of the art drawing processes and solutions
OFFERING	our experience technical service and customised solutions
AIMING	to be the world market leaders for the highest quality lubricants

DRY LUBRICANTS FOR LOW AND MEDIUM CARBON WIRE

Applications: nails, annealing, galvanizing, redrawing

PANLUBE®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
S10	calcium lubricants with low fat content	For low and medium speed drawing.	The rod preparation can be 1. by mechanical descaling 2. by brushing 3. by abrasive sanding 4. by acid pickling
S14		For medium speed drawing.	
S25		For high speed drawing.	
S27		No residual in the pickling bath after annealing.	
S37		For medium and high speed drawing.	
S39		For high speed drawing.	
S40		Heavy coating for high speed drawing.	
S44		For high speed drawing, high melting point.	
S240		Suitable for big diameters, clean surface.	
S433		Contains E.P. additives, it is suitable for machines with limited cooling.	
S466	calcium - sodium lubricants	For very high speed starting from belt descaler and pre-coated rod. Suitable for in-line machines. To be used on the first block followed by a sodium lubricant.	The rod preparation can be pre-coated by 1. lime 2. water soluble carriers
S933		To be used for big diameters on 2-5 steps when a low residual is required on the finished wire.	
S1000	borax free sodium lubricant with medium fat content	Used after a calcium lubricant to reduce the final coating or from the first pass with lime coated rod.	All products are suitable for pressure dies.
S1400	borax free sodium lubricant with high fat content	For the final dies or for redrawing of fine wire, clean nail wire.	
S1440	low borax sodium lubricants	For the production of fine wire at very high speed, up to 40 m/s.	
S1531		Suitable for big diameters for the production of clean wire.	

DRY AND WET LUBRICANTS FOR PLATING QUALITY WIRE (P.Q.W.)

PANLUBE®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
S212	calcium - sodium lubricants with low fat content	Partially water soluble. It can be used for multiple die at high speed. For better cleaning on the final dies a Sodium lubricant is recommended (PANLUBE S1400).	
S466			
S616			
S622			
S933	calcium - sodium lubricant with medium fat content	Recommended for big diameters, bright finishing, rust protection.	<ol style="list-style-type: none"> acid pickling and lime or pre-coating (PANCOVER) mechanical descaling mechanical descaling and brushing abrasive belt descaling in-line shot blasting (Deblasting process) <p>The final cleaning is generally obtained by a degreasing solution in the last die box using a single or double rotating die. (See our Rotating Die Box LPL 43/2).</p>
S1030	calcium - sodium lubricant with high fat content	Recommended for high speed drawing, to be used on the first dies, followed by S1400 or S1531.	
S2000	calcium - sodium lubricant	For the production of clean wire.	
S1400	borax free sodium lubricant	Fully water soluble, it can be used for all dies in case of lime coating, or after a calcium-sodium lubricant in case of mechanical descaling.	
S1440	low borax sodium lubricant		
S1450	borax free, sodium lubricant with medium fat content		
S1531	low borax sodium lubricant with high fat content		
G4210	jelly paste	Special paste for one die application on lime coated rod, excellent bright finishing and good protection against corrosion.	
G4260	light green paste	High lubrication paste to be used for heavy operation, one step.	
L3005	liquid lubricants soluble in water	For wet drawing of fine wire with bright finishing.	
L3009		To be added at 5% to the final degreasing solution.	
L3131	solvent based lubricant	For removal of the residual lubricant after wet drawing for staple wire.	

LUBRICANTS AND COATINGS

Wire for fibers - fine wire redrawing

PANCOVER ®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
4750	low borax pre-coating compound, water soluble	Suitable for high speed drawing, for in-line or batch treatment, low humidity pick up, good anti-rusting properties.	
4760	borax free pre-coating compound, water soluble		
4780	borax free pre-coating compound, water soluble		
PANLUBE ®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
S27	calcium lubricant for high speed mechanical descaling	For first drawing starting from mechanical descaling and pre-coating, followed by S1280 or S1440.	1. acid pickling and lime or pre-coating
S44	calcium lubricant for high speed		
S330	calcium - sodium lubricants for high speed	To be used for very high speed starting from belt descaled and pre-coated rod. Suitable for in-line machines. To be used on the first 1-3 blocks followed by sodium lubricants S1280 or S1440.	2. belt descaling and pre-coating
S466			
S1280	low borax sodium lubricant with high melting point	Totally soluble in water and very easy to be removed.	
S1400	borax free sodium lubricant		
S1440	low borax sodium lubricant with high fat content		
S1440	low borax sodium lubricant with high fat content		

LUBRICANTS FOR ROLLING

PANLUBE ®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
S14	calcium lubricant	To be used on the first step with die, followed by multistep rolling operations.	Mechanical descaling.
S66	calcium - sodium lubricant		
S1531	low borax sodium lubricant	High content of fatty acids. For high speed rolling machines for low carbon wire. Low residual on the final wire. Surface easy to clean and compatible with hot dip galvanizing and plating.	Mechanical descaling, brushing, belt descaling, with or without coating.
S2550	borax free sodium lubricant		
DEROL 1	water soluble semisynthetic oil	For mesh production and multiblock rolling operations. Final surface easy to clean and fully compatible to welding and plating operations.	
L3012		For stainless steel rolling for flat strip production. Very easy to be removed with the standard U.T.S. or electrolytic systems.	

DRY AND WET LUBRICANTS FOR WELDING WIRE

CO2 wire, electrodes, FCW, Sub Arc, Copper Coated and Copper free CO2 wires

PANLUBE®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
S37	calcium lubricants	For medium drawing speed (12-16 m/s).	Mechanical descaling.
S44		For high speed (12-16 m/s).	
S55	calcium lubricant low fat content	For high speed (up to 20 m/s).	1. mechanical descaling 2. acid pickling, lime or borax or PANCOVER coating
S59	calcium lubricant medium fat content	Easy to be removed in the following wet drawing operation.	Mechanical descaling.
S103	calcium lubricant, medium fat content, high melting point	For very high speed, in combination with S55 or S44.	1. mechanical descaling 2. belt descaling and borax or PANCOVER coating
S104	calcium lubricant	High lubrication and high melting point.	Mechanical descaling.
S244	calcium lubricant medium fat content	For very high drawing speed, on the first dies followed by sodium (S1285- S1440), not suitable for the further wet drawing operation.	Orbital belt descaling and pre-coating (Pancover 4780).
S466	calcium - sodium lubricant medium fat content	For high drawing speed, on the first dies followed by sodium (S1285 - S1440), not suitable for further wet drawing operation.	Orbital belt descaling and pre-coating (Pancover 4780) or pickled and salt coated material.
S2000	calcium - sodium lubricant medium fat content	For final dies after a calcium lubricant (S44, S55, S59, S103).	1. mechanical descaling 2. acid pickling + lime or borax or PANCOVER coating
S1280	low borax sodium lubricant with high content of stearic acid		
S1285	borax free, sodium lubricant with high content of stearic acid	For high drawing speed, on final dies in combination with S466, S55 or S244.	1. mechanical descaling 2. orbital belt and pre-coating 3. acid pickling, lime, borax or PANCOVER coating
S1440	low borax sodium lubricant, high melting point		
S1103	special lubricants for skin pass		
L30SP		Very good neutralization properties and high feedability in the welding machine.	Copper-bronzed coated wire
L3000	water soluble liquid lubricants: different balance of degreasing and lubrication	Strong stability against the action of lime and calcium lubricants, excellent degreasing action to prepare the surface for the further copper coating process. Developed also to offer an excellent resistance to acid contamination and high die life of skin pass die at very high drawing speed.	After first drawing from: 1. mechanically descaled rod 2. mechanically descaled and PANCOVER coating 3. pickled and lime or PANCOVER coating
L3009			
L3019			

PANLUBE ®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
L3048	special lubricant for skin pass	Special oil to be used for the skin pass of copper coated wire with PCD dies at high speed (up to 30 m/s).	
L3110	liquid oils not water soluble	For the protection and lubrication of the copper coated welding wire.	Anti-rusting agents and protective oils.
L3112		For the protection and lubrication of the copper free welding wire.	
G4250	special water dispersible grease	For the lubrication of the skin pass of copper free wire.	Acid cleaning and neutralising.
PANCOVER ®			
4722	water soluble salt compound	Preparation of bath for the production of copper free CO2 welding wire.	Copper free CO2 welding wire.
PANCHEM ®			
5625	water soluble powder	Preparation of bath for the production of bronze CO2 welding wire.	Bronze coated CO2 wire.
5630			

DRY AND WET LUBRICANTS FOR FLUX CORE WIRE

PANLUBE ®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
S466	calcium - sodium lubricant	For breakdown operation.	
S600	calcium lubricants high content of stearic acid	Fine product for in-line drawing at high speed. It contains Molibendum.	Forming and rolling without coating.
S600VMO		Fine product for in-line drawing at high speed. It contains Molibendum. For non baked type.	
S601		Very fine product with graphite and additives for baked type FCW.	
S1504	borax free sodium lubricant	For the first die after filling up.	Seamless tube.
L3000	water soluble liquid lubricant	For wet drawing of seamless FCW before copper coating.	

WIRE FOR ELECTRODES

PANLUBE ®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
S56	calcium lubricant	Low residual on the wire.	Mechanical descaling or pickled and lime coated rod.
S433		For old machine with bad cooling.	
S616	calcium - sodium lubricants	To be used on all the dies with the last die in water.	Mechanical descaling.
S622		To be used for big diameters with the last die in water.	
S933		To be used on all the dies, low residual easy to be removed in water.	
S1450	borax free sodium lubricant	Low consumption, clean wire.	Mechanical descaling or pickled and lime coated rod.

DRY AND WET LUBRICANTS FOR COLD HEADING QUALITY WIRE (C.H.Q.)

PANLUBE ®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
S14	calcium lubricants	For the pre-drawing before annealing, good lubrication.	Pickled and lime coating or mechanical descaling.
S209		For the pre-drawing before annealing. It leaves very low residual after the furnace.	
S2860T	polymer lubricant	For the pre-drawing before annealing. It leaves zero residual after the furnace.	Shot blasting or pickling and lime.
S933	calcium - sodium lubricant	For the pre-drawing, 1-3 dies before annealing.	Pickled and lime coating or pickled and phosphate coating.
S2800V	calcium - aluminium lubricant	In combination with PANCOVER. These products leave a low residual and promote high performance in cold heading operations.	Acid pickling, phosphate coating, lime or reactive stearate coating.
S2920V	calcium - sodium lubricant		
S1300	borax free, reactive stearate, water soluble	For the preparation of reactive lubrication bath after annealing, pickling and phosphate coating.	After phopshate coating.
S1470	borax free, sodium lubricant with medium content of fatty acids, low melting point	For the final calibration after annealing and phosphate coating.	Annealing + phosphate and lime/phosphate and soap coating/polymer coating.
S1531	low borax, sodium lubricant with high content of fatty acids		
G4210	jelly-paste	For the final calibration after annealing, bright finishing.	Phosphate and lime.
G4218			
L3102	lubricating oils with E.P. additives	Different viscosity to cover different applications and materials. E.P. additives for the final calibration before the forming operation. Fully compatible with the heading oil.	1. acid pickling and coating 2. in-line shot blasting
L3104			
L3106			

ROLLING OR DRAWING OF ELECTROWELDED MESH WIRE

PANLUBE ®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
S101	calcium lubricants with high melting point	Low residual on finished wire.	Mechanical descaling.
S105X		Extra coarse grain to reduce the dust formation.	
S206	calcium lubricant with low fat content	Low residual on finished wire. It has been designed for drawing and rolling operations at high speeds. Low consumption.	
S452VV	calcium lubricant with high fat content	Extra fine product for very low consumption.	
S66	calcium - sodium lubricants with medium fat content	Low residual on finished wire.	
S630B		Dust free product.	
DEROL1	water soluble semisynthetic oil	At 10% concentration for the rolling of round and indented wire.	
L3804	soluble oil	For the lubrication of the feeding wire to the welding machine.	

DRY LUBRICANTS FOR PC WIRE AND STRAND

PANLUBE®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
S400	calcium lubricant with medium content of fatty acids	High melting point.	Acid pickling, phosphate coating and neutralized with salt.
S410	calcium lubricant with high content of fatty acids, E.P. additives	It can be used on all dies. Pressure dies recommended.	Acid pickling, phosphate coating and borax or PANCOVER coating.
S410NS	calcium - sodium lubricant with high content of fatty acids, E.P. additives	High performance. To be used on all the dies or followed by S1440 or S455.	Belt descaling and in-line coating.
S645	calcium lubricant with low content of fatty acids		Mechanical descaling and borax or PANCOVER coating.
S422	calcium lubricant with medium content of fatty acids, E.P. additives	Suitable for direct water cooling.	Acid pickling, phosphate coating and borax or PANCOVER coating.
S455	calcium - sodium lubricant	To be used on all the dies for PC wire to be galvanized. It can also be used on the final 2-3 dies after a calcium lubricant.	
S613	calcium lubricant with medium content of fatty acids	To be used on the first 4 dies, followed by sodium lubricant (S1440, S1504).	1. acid pickling, phosphate coating and borax, lime or PANCOVER coating 2. in-line shot blasting and borax 3. coil shot blasting
S1440	low borax sodium lubricant	High content of stearic acid, high melting point.	
S1504	borax free sodium lubricant	To be used in the final 2-3 dies.	
S2001	special sodium lubricant with medium content of fatty acids	To be used on all the dies.	Acid pickling phosphate and borax.

DRY LUBRICANTS FOR DRAWING AFTER GALVANIZING

D.A.G. wire

PANLUBE®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
S400	calcium lubricants with medium content of fatty acids	To be used in the first pass for spring wire followed by S1500, S1501, S1503, on the following dies.	
S431		On all the passes for roping wire.	
S1501	low borax sodium lubricant		Zinc coating.
S1500	borax free sodium lubricants	High content of stearic acid.	
S1503		To be used in all the dies for high speed if a clean surface is required.	

DRY LUBRICANTS FOR HIGH CARBON WIRE

Applications: ropes, springs, ACSR, piano wire...

PANLUBE®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
S400	calcium lubricants with medium content of fatty acids	For medium and high drawing speed. On all steps for roping wire before patenting. For the first dies followed by a sodium lubricant for spring wire.	
S405		For high drawing speed.	
S410	calcium lubricants with low content of fatty acid	For the first pass of spring wire for smooth and back finishing.	
S645		High lubrication for breakdown of roping wire.	
S410NS	calcium - sodium lubricant with high content of fatty acids, E.P. additives	Suitable for very high speed of mattress spring wire by belt descaling and in-line coating, high performance product on mechanically descaled without coating.	1. acid pickling, phosphate coating and borax or PANCOVER coating
S451	calcium lubricant with medium content of fatty acids	For PC wire and high carbon with phosphate coating preparation.	2. in-line shot blasting (Deblasting process) and PANCOVER borax free coating
S604	calcium lubricant	For big diameters to be used on the first dies.	
S612	calcium lubricant with low content of fatty acids	Product suitable for medium and high drawing speed use. To be used on first dies with a sodium on the final dies. High performance drawing lubricant for rod breakdown.	3. mechanical descaling 4. coil shot blasting and coating
S613	calcium lubricant with medium content of fatty acids	Very high coating to be used on heavy drawing operation.	5. belt descaling and in-line precoating
S1280	low borax sodium lubricant	To be used for the 2nd drawing after patenting.	6. brushing and in-line coating+C3
S1440	low borax sodium lubricant with high content of stearic acids, high melting point	For high speeds and fine wire production. Low residual on the wire.	
S1504	borax free sodium lubricant with high content of stearic acids, high melting point	Borax free product for spring wire with smooth finishing.	
S1600	borax free sodium lubricant with high content of stearic acid	For spring wire with smooth finishing.	

DRY AND WET LUBRICANTS FOR STEEL CORD, HOSE, SAW AND BEAD WIRE

PANLUBE®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
S400	calcium lubricant with medium content of fatty acids	Rod breakdown of bead wire.	1. pickling, phosphate and pre-coating
S645	calcium lubricant with low content of fatty acids		2. belt descaling and pre-coating
S410NS	calcium - sodium lubricant with high content of fatty acids, E.P. additives		3. mechanical descaling and coating (PANCOVER 4750, 4760, 4780)
S1280	low borax sodium lubricant with high content of stearic acids, high melting point	For first and second drawing of steel cord wire. High speed and performance. Pressure dies recommended.	Pickling and coating (PANCOVER 4750, 4760, 4780)
S1285	borax free sodium lubricant with high content of stearic acids, 100% environmentally safe		
S1440	low borax sodium lubricant with high content of stearic acids, high melting point		
L3046	semisynthetic emulsifiable oil		

DRY LUBRICANTS FOR AS WIRE

Aluminium clad wire

PANLUBE®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
S400V	calcium lubricant	Product suitable for medium and high drawing speed. To be used on the first dies with a sodium lubricant on the final dies.	
S410	calcium lubricant	To be used on all the dies.	Not required.
S444VV	calcium lubricant with high melting pot	High lubricatin for high speed, pressure dies required.	
S465-AS	calcium lubricant high melting point containing molybdenum		
S1285	borax free sodium lubricant	For all the steps.	Brass coating.

STAINLESS STEEL WIRE

Pre-coatings, dry and wet lubricants, greases, degreasing agents, chemicals

P R E - C O A T I N G S

PANCOVER®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
4700	chloride and borax free	Suitable for stainless steel wires, bars, tubes and profiles.	1. acid pickling 2. shot blasting 3. molten salts descaling
4730	medium borax content	The coating film has a low tendency to pick up moisture, enabling long storage before final use. Special additives have been included to enhance the adherence to the profiles/surface preparation.	
4750	low borax		
4770	very low hygroscopicity, low borax	Particularly indicated for high humidity environment.	
4780	borax free	It is used for the in-line treatment of multi-wire coating after in-line phosphate.	1. shot blasting 2. acid pickling

L U B R I C A N T S

PANLUBE®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
S55	calcium lubricants with low fat content	For medium and high speed drawing.	Rod preparation by pre-coating in-line or batch (PANCOVER products) Sodium lubricant is generally used after a calcium to obtain a clean surface. It can be used directly from the first pass on coated rod.
S645		For high speed drawing, high melting point.	
S330	calcium lubricants	Designed for the highest speeds up to 40 m/s (8000 fpm).	
S613		Suitable for average and high drawing speed. To be used on the first dies and sodium on the following dies. High performance drawing lubricant for rod breakdown and fine wire drawing.	
S616		Recommended for high speed drawing, to be used on the first dies, followed by a sodium lubricant.	
S1400	borax free sodium lubricant with high content of stearic acids	For the final dies or for redrawing of fine wire, clean nail wire.	
S1440	low borax sodium lubricant, totally water soluble and very easy to be removed	For high speed and fine wire production. Low residual on the wire. Suitable for in-line cleaning. Use after a calcium lubricant to reduce the residual on the wire.	
S1280	low borax sodium lubricant		
S1504	borax free sodium lubricants	High content of stearic acid. Totally soluble in water and very easy to be removed.	
S2550			

L U B R I C A N T S

PANLUBE®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
L3251	very viscous oil with high content of E.P. additives	Calibration for single or multipass drawing with high reduction of round or profiled bars.	Pre-coating by PANCOVER 4700, 4730, 4770, required only for heavy duty applications (deep forming, cold heading, profiles).
L3252	high viscous oil with high content of E.P. additives		
L3254	medium viscous oil with high content of E.P. additives		
L3104CF	chlorine free	Recommended for the calibration in-line to the annealing furnace.	Annealed.
G4200	viscous paste with E.P. additives	Grease developed to be used on a single pass, providing bright finishing and residual film easy to be removed.	Not required or PANCOVER coating for heavy duty application.
L3803	water soluble oil	To be used at high concentration for rolling operations for profiles.	Tube forming by rolling.
L3012	water soluble semisynthetic oil	For stainless steel rolling for flat strip production. Very easy to be removed with the standard U.T.S. or electrolytic systems.	Annealed.
L3220CF	chlorine free low viscosity oil	To be used for the wet drawing in the production of fine wire.	1. wet drawing 2. not required or PANCOVER coating for heavy duty application
L3134	very low viscosity oil	Calibration of fine wires in-line to the annealing furnace.	Wet drawing.

PANCHEM®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
4528	degreasing agents	Special liquid product for the preparation of acid degreasing solution suitable for U.T.S. or electrolytic systems for annealed wires before phosphate coating.	Wire from drawing operation.
5200		Special liquid product for the preparation of alkaline degreasing solution in-line to the annealing furnace.	
5020	neutralising and passivating agent	Anti-rusting coating for stainless steel 400 series, to be used after acid pickling and rinsing to provide anti-rusting action.	Acid pickling and rinsing.

WET DRAWING LUBRICANTS

for LOW CARBON, HIGH CARBON, GALVANIZED WIRE and ALLOY WIRE

PANLUBE ®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
G4210	paste lubricant	It produces very stable emulsions for multi-die drawing of annealed, galvanized or electroplated wires.	After first drawing, or annealing and phosphate coated.
L3000	water soluble oils for the preparation of water based solution for wet drawing	High lubrication and high speed for the drawing of low and medium carbon wire and galvanized wire.	Galvanized wire.
L3019		High lubrication and high speed with shiny finishing for the production of staple wire.	
L3010	liquid lubricant soluble in water		
L3046	emulsifiable oil for high carbon galvanized wire	To be used for medium and high carbon either phosphate coated or galvanized.	1. galvanized wire (D.A.G.) 2. phosphate coated

DRAWING OILS FOR BAR AND PROFILE

PANLUBE ®	PROPERTIES	CHARACTERISTICS
L3100 series	special chloride free oils of different viscosity	To be used for the drawing of carbon steel.
L3255	lubricating oil with E.P. additives	It can be used as additive for other products to increase lubricity and drawing performance.
L3125	light oil	To be used in the polishing section for lubrication and corrosion protection.

COPPER WIRE DRAWING

L3000	soluble oil for extra - fine (capillary) wire drawing	To be used for extra-fine and capillary wires.
L3300	emulsifiable oil for rod breakdown and intermediate wire drawing	To be used at 8-12 % for the rod breakdown and 4-6 % for the intermediate drawing.
L3350	emulsifiable oil for intermediate and fine copper wire drawing	To be used at 5-7 % for the intermediate drawing and 2-4 % for fine wire drawing.

ALUMINIUM WIRE DRAWING

L3400	low viscosity neat oil	Special light oil for deep drawing.
L3410	medium viscosity oil	It is an average viscosity oil for rod breakdown and intermediate wire of Aluminium and Al-alloys.
L3420	neat oil	Low viscosity oil for medium and fine wire sizes of Aluminium and Al-alloys on high speed slipping machines.

PHOSPHATE COATINGS (PANCOVER F SERIES)

PANCOVER®	PROPERTIES	CHARACTERISTICS	SURFACE PREPARATION
F4500A F4501P	zinc phosphates accelerated with nitrate/nitrite	For general applications for cold heading and high carbon steel wire: high coating weight, very adherent crystals. Suitable for oil and dry lubrication. It can be used either for batch or in-line treatments.	
F4620UN	zinc phosphates accelerated with nitrate/chlorite	Universal product for application on high and low carbon steel, on acid pickled or shot blaster rod. Single product easy to use, very stable working conditions. It produces a smooth and black finish on the drawn wire, it can be used for batch or in-line operations.	1. acid pickling 2. shot blasting
F4640		It is specific for cold heading wire, prepared by acid pickling: high coating weight suitable for the reactive soap coating.	
F4550A F4551P	zinc calcium phosphates accelerated with nitrate/nitrite	Product suitable for high speed drawing for high carbon steel wires.	Acid pickling.

NON REACTIVE PRE-COATINGS (PANCOVER)

4700	chloride free products, special additives have been included to enhance the adherence to the rod/wire surface	Borax free pre-coating product for stainless steel wires, bars, tubes and profiles. The coating film has a low tendency to moisture pick-up enabling long storage before final use.	1. acid pickling 2. shot blasting
4730		Medium borax content pre-coating product for stainless steel wires, bars, tubes and profiles. The coating film has a low tendency to pick up moisture enabling long storage before final use. This product can be used either for stainless steel or carbon steel, batch or in-line treatment, specially indicated for mattress spring wire.	3. molten salts descaling
4750	low borax pre-coating	Low borax pre-coating product for stainless steel wires, bars, tubes and profiles. The coating film has a low tendency to moisture pick-up enabling long storage before final use.	
4760	borax free product, special additives have been included to enhance the adherence to the rod/wire surface	Designed to avoid the presence of boron in waste water: it can be used either on rod or fine wire.	1. acid pickling 2. shot blasting
4770	very low hygroscopicity, low borax	Particularly indicated for high humidity environment.	
4780	borax free pre-coating compound, water soluble	It is used for the in-line treatment of multi-wire coating after in-line phosphate.	
S1300	special activated sodium stearates	Suitable for the preparation of finishing coating for Cold Heading wire. Application for hot dip.	Shot blasting or acid pickling and phosphate coating.
S1303		Suitable for the preparation of finishing treatment of steel tube after phosphate coating.	
POL651E	polymer based product	To be used after phosphate coating for cold heading application.	

AUXILIARY PRODUCTS

INHIBITORS FOR ACID PICKLING

		PROPERTIES	CHARACTERISTICS
PANCHEM	5100	inhibitors for acid pickling	Liquid product for hydrochloric acid pickling.
PANCHEM	5130		Liquid product for hydrochloric acid and sulphuric acid pickling.

ACCELERATORS FOR PHOSPHATE TREATMENT

PANCHEM	5635	powder	Accelerator for nitrite/nitrate phosphating bath (powder form).
PANCHEM	5636	concentrated liquid	Liquid product for nitrite/nitrate accelerated bath.

NEUTRALISING AND ANTI-RUSTING

PANCOVER	4780	neutraliser	It is used for the in-line treatment of multi-wire coating after in-line phosphate.
PANCHEM	5020	neutralising and passivating agents	Protective coating for stainless steel 400 series.
PANCHEM	5310		Liquid product to be added to the lime or borax bath to provide passivation for long shelf life to the pickled product.
PANCHEM	5030	anti-rusting agent and protective product	Liquid product for the preparation of protective solution for galvanized wire. To prevent oxidation and provide bright finish.
PANCHEM	5040	emulsifiable oil for anti-rust protection of galvanized wire	
PANLUBE	L3110	protective oil for copper coated wire	It provides anti-rusting properties and good feedability in the welding gun.
PANLUBE	L3112	protective coatings for steel wire	

DEGREASING AGENTS

		PROPERTIES	CHARACTERISTICS
PANCHEM	4528	liquid acid based solution	Special liquid product for the preparation of acid degreasing solution suitable for U.T.S. or electrolytic systems for annealed wires before phosphate coating.
PANCHEM	5200	liquid alkaline based solutions	Special liquid product for the preparation of alkaline degreasing solution for annealed wires before phosphate coating.
PANCHEM	5220		Suitable for the preparation of degreasing and pre-phosphate coating before final coating and painting operation. Suitable for dipping and spraying operation.
PANLUBE	L3131	solvent based oil	Solvent based liquid for the final cleaning of staple wire.

ADDITIVATED CHARCOALS FOR HOT DIP WIRE GALVANIZING. DIFFERENT GRAIN SIZES AVAILABLE

PROPERTIES		CHARACTERISTICS
PANCHEM	5700	additivated charcoals for galvanizing
PANCHEM	5703	
PANCHEM	5710	
PANCHEM	5712	
PANCHEM	5730	
		Different products are designed for zinc wiping in the hot dip galvanizing process. The products are treated with special additives to provide good wiping properties, long life, very low fumes. Bright or dull finish depending on the application.
		Special charcoal of fine grain size for the use on galvanized mesh.
		Specially sieved and dried mineral coal to cover the lead bath after patenting.

FLUXING PRODUCTS FOR GALVANIZING AND Al-Zn HOT DIP COATING

PANFLUX	S1	fluxing products
PANFLUX	5600	
PANFLUX	L	
ALUFLUX	5610	
		Products for preparation of fluxing baths for hot dip galvanizing.
		Liquid concentrate solution.
		Special flux for zinc aluminium alloy hot dip coating.

S P I R A L B R U S H E S

PROPERTIES		CHARACTERISTICS
SP5839	outer diameter: 58 mm	Brass coated steel bristles.
SP4034	outer diameter: 40 mm	Brass coated steel bristles.
SP5734NY/SS	outer diameter: 57 mm	Polypropylene bristles, stainless steel frame.
SP4034NY/SS	outer diameter: 40 mm	Polypropylene bristles, stainless steel frame.
SP3034SS	outer diameter: 30mm	Stainless steel bristles and frame.

WIPING PADS FOR GALVANIZING AND PROVIDE A UNIFORM AND BRIGHT ZINC COATING

<p>Wiping pads for hot dip galvanizing</p> <ul style="list-style-type: none"> - yellow type - black type - white type 	<p>lining:</p> <ul style="list-style-type: none"> - aramidic textile fiber - glass fiber - impregnated and lubricated - dimensions following customer request 	<p>High technology wiping pads, expressly studied to wipe off the excess of zinc and provide a uniform and bright zinc coating.</p> <p>Main characteristics:</p> <ul style="list-style-type: none"> - long life - lubricated for low friction - high surface speed (up to 10 m/s) - constant wiping effect - not flammable - asbestos free
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- 1 DRY LUBRICANTS FOR LOW AND MEDIUM CARBON WIRE**
Applications: nails, annealing, galvanizing, redrawing
- 2 DRY AND WET LUBRICANTS FOR PLATING QUALITY WIRE (P.Q.W.)**
- 3 LUBRICANTS AND COATINGS Wire for fibers - fine wire redrawing**
LUBRICANTS FOR ROLLING
- 4 DRY AND WET LUBRICANTS FOR WELDING WIRE**
CO₂ wire, electrodes, FCW, Sub Arc, Copper Coated and Copper free CO₂ wires
- 5 DRY AND WET LUBRICANTS FOR FLUX CORE WIRE**
WIRE FOR ELECTRODES
- 6 DRY AND WET LUBRICANTS FOR COLD HEADING QUALITY WIRE (C.H.Q.)**
ROLLING OR DRAWING OF ELECTROWELDED MESH WIRE
- 7 DRY LUBRICANTS FOR PC WIRE AND STRAND**
DRY LUBRICANTS FOR DRAWING AFTER GALVANIZING D.A.G. wire
- 8 DRY LUBRICANTS FOR HIGH CARBON WIRE**
Applications: ropes, springs, ACSR, piano wire...
- 9 DRY AND WET LUBRICANTS FOR STEEL CORD, HOSE, SAW AND BEAD WIRE**
DRY LUBRICANTS FOR AS WIRE Aluminium clad wire
- 10 STAINLESS STEEL WIRE**
Pre-coatings, dry and wet lubricants, greases, degreasing agents, chemicals
- 12 WET DRAWING LUBRICANTS**
For low carbon, high carbon, galvanized wire and alloy wire
DRAWING OILS FOR BAR AND PROFILE
COPPER WIRE DRAWING
ALUMINIUM WIRE DRAWING
- 13 PHOSPHATE COATINGS (PANCOVER F SERIES)**
NON REACTIVE PRE-COATINGS (PANCOVER)
- 14 AUXILIARY PRODUCTS**
INHIBITORS FOR ACID PICKLING
ACCELERATORS FOR PHOSPHATE TREATMENT
NEUTRALISING AND ANTI-RUSTING
DEGREASING AGENTS
- 15 ADDITIVATED CHARCOALS FOR HOT DIP WIRE GALVANIZING. DIFFERENT GRAIN SIZES AVAILABLE**
FLUXING PRODUCTS FOR GALVANIZING AND Al-Zn HOT DIP COATING
SPIRAL BRUSHES
WIPING PADS



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Printed on 2016



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