



**lubrimental**



**lubrimetal ...to reach the highest peaks**

**Lubrimetal** is a chemical company specialising in the production of lubricants and other chemicals for wire drawing and metal surface treatment

## **QUALITY AND ASSISTANCE**

Our knowledgeable technicians have built up a strong collaboration with our customers utilising Lubrimetal's 50 years of experience to solve their technical problems and deliver innovative solutions

Our chemists co-operate with our technical sales department and with our customers to develop new products and to test residuals before/after the drawing processes and for other specialised analyses

## **ASK FOR OUR NEW GENERATION PRODUCTS**

## **MISSION**

To assist our customers in obtaining maximum technical performance using suitable and, where necessary, personalised products

## **PHILOSOPHY**

Since its inception in 1959 the cardinal values of Lubrimetal have been: technical competence, passion, availability and environmental responsibility

## **RESPONSIBILITIES**

ISO 9001:2008      Since 1993    Quality Management System

ISO 14001:2004    Since 1995    Environmental Management System

OHSAS 18001:2007    Since 2000    Occupational Health and Safety System

Our well known registered trademarks are synonymous with high performance and guaranteed quality all over the world

### **LUBRIFIL®**

- Calcium based dry drawing lubricants
- Sodium based dry drawing lubricants
- Other dry lubricants
- Borax and nitrite free lubricants

### **LUBRIOL®**

- Oils and greases for wire drawing
- Emulsifiable oils for wet wire drawing

### **FOSFIL®**

Phosphate coating agents and other chemical products for treating metal surfaces

### **STEELFOR®**

Lubricant carriers for the surface treatment of carbon and stainless steel wire and rod

Borax free coatings

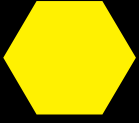
### **ADDITIVES LM®**

Pickling and corrosion inhibitors and other special additives

Auxiliary items for steel wire drawing and for other cold forming operations

### **ENGINEERING DIVISION**

Rotating die-holders, mechanical descalers, helicoidal brushes, lubricant applicators



**Low-medium carbon steel**



**High carbon steel**



**Stainless steel**



**Wet drawing**



**Copper**



**Inhibitors**



**Phosphating and lubricant carriers**



**Metalworking and other treatments**

## Low-medium carbon steel

For the manufacture of	Surface treatments	Dry drawing	Suitable lubrication
Standard quality wires Nails wire (traditional) Annealed wire	Mechanical descaling or acid pickling	Up to 12 m/s	LUBRIFIL VA 8004 - VA 9000 VA 803 - VA 805 VA 4045 - VA 3600
Galvanized wire for fences, barbed wire, baling wire, etc.		Up to 16 m/s	LUBRIFIL VA 9001 - VA 9006 VA 9007 - VA 9009 VA 645 - VA 646
		Up to 22 m/s	LUBRIFIL VA 2000 - VA 2005 VA 2007 - VA 2009 VA 651 - VA 4040
		Over 22 m/s	LUBRIFIL VA 2001 - VA 2015 VA 2100 - VA 2200 VA 3600 - VA 3800
Plating quality wire Bright finished wire Special nails wire	Mechanical descaling or acid pickling	Single pass	GREASE ZT 1 - ZT 9 - V 249
Electrode wire Desoaped wire		Multidraft	SYSTEM W - SYSTEM V 100 LUBRIFIL VA 6040 - VA 1362 VA 1035 - VA 7020 VA 7015 - VA 7030 VA 4650 - VA 6001
Flux cored wire			LUBRIFIL VA 28 RC - VA 2009 VA 285 - VA 7221 ADDITIVE BG
Wire to be wet redrawn Mig welding wire Sub arc Staple wire Other fine sizes	Mechanical descaling or acid pickling	Multidraft	LUBRIFIL VA 2009 - VA 9052 VA 1035 - VA 7221 VA 6001 - VA 7181
		Before annealing	LUBRIFIL VA 8004 - VA 9001 VA 3600 - VA 7221
Concrete reinforcement wire Electrowelded wire fabric	Mechanical descaling	Indented wire	LUBRIFIL VA 8007 - VA 9000
		Smooth wire	LUBRIFIL VA 3600 - VA 1680 VA 4650 - VA 372
		Cold rolling	LUBRIFIL VA 376 - VA 377 VA 332 - VA 300

## Low-medium carbon steel

For the manufacture of	Surface treatments	Dry drawing	Suitable lubrication
Cold heading quality wires	Acid pickling (phosphate coating)	Multidraft	LUBRIFIL VA 7006 - VA 4650 VA 7015 - VA 7021
		Single pass	LUBRIFIL VA 3180 - VA 1520 VA 1000 - VA 285 VA 10 - VA 1019
		Skin-pass annealed wire	LUBRIFIL VA 1520 - VA 1530 LUBRIOL V 635 - V 570
Dry redrawn wire	Drawn wire	Multidraft	LUBRIFIL VA 9001 - VA 7002 VA 6001 - VA 7003
	Galvanized wire Plated wire	Multidraft	LUBRIFIL VA 3507 - VA 4082 VA 6538 - VA 6539 VA 7001 - VA 7002
		Skin-pass	LUBRIOL 77 GREASE VE

## High carbon steel

For the manufacture of	Surface treatments	Dry drawing	Suitable lubrication
Standard quality wires Mattress spring wire	Acid pickling (phosphate coating) or mech. descaling + salt coating ( <b>STEEFOR</b> )	Multidraft	LUBRIFIL VA 705 - VA 3179 VA 779 - VA 4045 VA 803 - VA 2100  LUBRIFIL VA 7221 - VA 7222 VA 6001 - VA 7002
PC wire and strand Spring wire	Acid pickling (Phosphate coating)	Multidraft	LUBRIFIL VA 705 - VA 3179 VA 779 - VA 3180  LUBRIFIL VA 7221 - VA 7222 VA 6538 - VA 7223

## High carbon steel

For the manufacture of	Surface treatments	Dry drawing	Suitable lubrication
Rope wire Fine size wires	Patenting, pickling and phosphate coating (in line)	Multidraft	LUBRIFIL VA 705 - VA 3179 VA 779 - VA 805  LUBRIFIL VA 7221 - VA 7001
Bead wire - Steel cord Hose wire - Saw wire	Acid pickling (phosphate coating)	Multidraft	LUBRIFIL VA 7001 - VA 7650 VA 8081 - VA 6001  LUBRIFIL VA 7015/3 - VA 12
Galvanized wire	Galvanizing	Multidraft	LUBRIFIL VA 3507 - VA 3504 VA 6538 - VA 6539 VA 7001 - VA 7002
A.S. wire	Aluminized	Multidraft	LUBRIFIL VA 3705 - VA 2007 VA 7090 - VA 7222

## Stainless steel

For the manufacture of	Surface treatments	Dry drawing	Suitable lubrication
Standard quality wires Rope wire Spring wire Mig welding wire Electrode wire	Acid pickling and salt coating ( <b>STEEFOR</b> )	Multidraft	LUBRIFIL VA 2000 - VA 2007 VA 779 - VA 780 VA 7001 - VA 7222
	Degreasing, annealing (in line) and salt coating ( <b>STEEFOR</b> )	Multidraft	LUBRIFIL VA 7020 - VA 7001 VA 6001 - VA 7222
	Annealing	Skin-pass	LUBRIOL INOX 86 - INOX 100 INOX 99 - INOX 509 INOX 44 - INOX M 3
Cold heading quality wire	Acid pickling and salt coating ( <b>STEEFOR</b> )	Multidraft	LUBRIFIL VA 7020 - VA 7001 VA 6001 - VA 7222
		Single pass	LUBRIFIL VA 1018 - VA 1500 VA 7020 - VA 1520  LUBRIOL INOX 77 - INOX 86 INOX 99 - INOX 100



## Stainless steel

For the manufacture of	Surface treatments	Dry drawing	Suitable lubrication
Bars	Acid pickling or shot blasting + salt coating <b>(STEEFOR)</b>	Single pass	LUBRIOL INOX 86 - INOX 99 INOX 40 - INOX 62

## Wet drawing

For the manufacture of	Use	Suitable lubrication
Mig welding wire Staple wire	4 - 10% of oil into water	LUBRIOL V 795 - V 688 V 348 - V 325 V 340 - V 799
Galvanized wire - Rope wire Copper plated wires	2 - 10% of oil into water	LUBRIOL V 727 - V 728 V 750 - V 740
Steel cord - Hose wire	6 - 12% of oil into water	LUBRIOL LMZ 10 - LMZ 15 LMZ 20 - LMZ 30
Stainless steel wire	Pure as supplied	LUBRIOL V 790/5 - V 790/7 INOX 509

## Copper

For the manufacture of	Use	Suitable lubrication
Rod breakdown	10 - 15% of oil into water	LUBRIOL CU 55 - CU 60 CU 390 - CU 400
Intermediate and fine diameters	4 - 8% of oil into water	LUBRIOL CU 390 - CU 400 CU 55 - CU 800
Fine and superfine diameters	1 - 4% of oil into water	LUBRIOL CU 390 - CU 420 CU 55 - CU 800

## Inhibitors

For the pickling of	Type of acid	Temperature	Suitable inhibitor
Low, medium and high carbon steel	Sulphuric acid	40-70 °C	LM 6535 - LM 6536 LM 6537 - LM 6538
	Hydrochloric acid	20-40 °C	LM 7 - LM 8
Stainless steel	Hydrofluoric acid	25-50 °C	LX 1 - LX 2

## Phosphating and lubricant carriers

Application	Remarks	Suitable product
Phosphate coating	Batch treatment	FOSFIL FRS - FRC - FRF
	In line treatment	FOSFIL FRL - FRL 9
Soap coating	Batch treatment	LUBRIFIL 222 - 555 - 999
Salt coating	Stainless steel	STEELFOR 7030 - 7050 ITS 2 - ITS 3
	Carbon steel	STEELFOR ITS 2 - ITS 21 P 1 - NC 3
Special additives	Additives for copper coating	CUPROFIX - CATALIX
	Wiping agents for galvanized wire (charcoal)	ZINCODUE - ZINCOQUATTRO ZINCOSEI - ZINCOSETTE
	Special formulations to meet specific Customer's requirements	ADDITIVE LM (range)
	Anti-corrosive agents and dewatering fluids	ANTICOR (range)

## Metalworking and other treatments

Application	Remarks	Use	Suitable product
Cold heading and extrusion	Carbon steel Alloyed steel	Pure as supplied	LUBRIOL E02 - E03 E04 - E05
	Stainless steel	Pure as supplied	LUBRIOL E029 - E020 E002
Metal-machining	Cutting, grinding	2 - 6% into water	LUBRIOL OT501 - OT502 OT503
	Turning, milling, broaching	4 - 8% into water	LUBRIOL GV602 - GV603 GV604 - GV606
	Threading, drilling	5 - 10% into water	LUBRIOL GV602 - GV603 GV604 - GV606
Vibrofinishing and other treatments	Degreasing, pickling, vibrofinishing	2 - 5% into water	LUBRIFIL VFP - VFP3 VFE LUBRIOL VFS - VFS5
	Finishing, passivation, polishing	2 - 4% into water	LUBRIOL VB90 - VB92 VB105
	Grinding, rust-inhibition	4 - 6% into water	LUBRIOL GV6 - GV603 - GV4 VIBIVAL N3 - N7 - N9



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