



# USHA LUBES PRIVATE LIMITED

## USHA WRL - 55

### DESCRIPTION:-

- USHA WRL - 55 is a brown colored non-bituminous, wax-based Wire Rope Lubricant.

### APPLICATION:-

- USHA WRL - 55 is a universal rust prevention agent for steel wire ropes in a wide variety of applications including wire ropes for cranes, bobbin ropes, guide ropes and drum winding ropes.
- It can be used during the manufacturing of the wire rope, as well as during servicing of the wire rope, to extend its operational life.
- Typical applications include mining & construction sector for standing & running lines, crane & marine sector for cranes and hoists. It can also be used for lubrication of chains.

### ADVANTAGES:-

- Excellent lubricity and penetrating capacity extend operational service life of rope by reducing metal to metal contact and friction under load and stretched condition.
- Excellent rust & corrosion resistance protects rope.
- High drop point ensures wide range of application temperature.
- Good EP property enables to sustain load.
- Good adhesive film strength protects rope from dust and pollutant.
- Excellent water repellent property fights environmental challenges.
- Solubility in solvents or light oils, when it is necessary to clean the rope.
- Quick curing after coating.
- USHA WRL- 55 meets and exceeds the quality requirement of ISO 4346.

Sl.	Characteristics	Acceptance Criteria	Test Method IS 1448
1	Drop Point	>80°C	P- 52
2	Flash Point (COC)	>220°C	P- 69
3	Water repellency & anti-corrosive properties	>72 hrs.	IS-9182(Part – 2), 1993 Annex - A
4	Test for protection against corrosion at high temp. / high humidity	>240 hrs.	Annex - B
5	Penetration (Cone) at 25 ± 0.5°C, 1/10mm	>50	P-60

- **Application Temperature:** 100°C – 120°C
- **Packing:** 185 Kg / 18 Kg (Steel Drum)
- **Storage:** Store in a cool and dry place. Handle with care during loading & unloading.
- **Shelf Life:** 1 (One) year from date of manufacturing in sealed condition.



# USHA LUBES PRIVATE LIMITED

## USHA WRL - 60

### DESCRIPTION:-

- USHA WRL - 60 is a brown colored non-bituminous, wax-based Wire Rope Lubricant.

### APPLICATION:-

- It is a brush-able lubricant that can be used in servicing of ropes to extend its operational life. Typical application in engineering ropes.

### ADVANTAGES:-

- Excellent lubricity and penetrating capacity extend operational service life of the rope by reducing metal to metal contact and friction under load and stretched condition.
- Excellent rust & corrosion resistance protects rope
- Good adhesive film strength protects rope from dust and pollutant.
- Excellent water repellent property fights environmental challenges.

BASE MATERIAL RESULT			
Sl.	Characteristics	Acceptance Criteria	Test Method IS 1448
1	Drop Point	>60°C	P- 52
2	Flash Point (COC)	>220°C	P- 69
3	Water repellency & anti-corrosive properties	>72 hrs.	IS-9182(Part – 2), 1993 Annex - A
4	Test for protection against corrosion at high temp. / high humidity	>240 hrs.	Annex - B
5	Penetration (Cone) at 25 ± 0.5°C, 1/10 mm	>150	P-60

- **Application:** Apply by brush, do not heat. Coating on rope should be thin to avoid dripping.
- **Packing:** 185 Kg / 18 Kg (Steel Drum)
- **Storage:** Store in a cool and dry place. Handle with care during loading & unloading.
- **Shelf Life:** 1 (One) year from date of manufacturing in sealed condition.

## **USHA Bitumen Compound – 1 (BC-1)**

### **DESCRIPTION:-**

- USHA BC-1 is a black colored Bituminous Wire Rope Lubricant.

### **APPLICATION:-**

- USHA BC-1 is an anticorrosive suitable for steel wire ropes used in the fishing industry, cranes and open gears.

### **ADVANTAGES:-**

- Excellent lubricity and penetrating capacity extend the operational service life of the rope by reducing metal to metal contact and friction under load and stretched condition.
- Excellent rust & corrosion resistance protects rope.
- Good EP property enables to sustain load.
- Good adhesive film strength protects rope from dust and pollutants.
- Excellent water repellent property fights environmental challenges.
- Solubility in solvents or light oils, when it is necessary to clean the rope.
- Quick curing after coating.

<b>Sl.</b>	<b>Characteristics</b>	<b>Acceptance Criteria</b>	<b>Test Method IS 1448</b>
1	Kinematic Viscosity at 100°C, Cst	450 to 650	P- 25
2	Flash Point (COC)	>220°C	P- 69
3	Drop Point	>60°C	P- 52
4	Water repellency & anti-corrosive properties	>72 hrs.	IS-9182(Part – 2), 1993 Annex - A
5	Test for protection against corrosion at high temp. / high humidity	>240 hrs.	Annex - B

- **Application Temperature:** 80°C – 100°C
- **Packing:** 13.5 Kg Nett. (Steel Drum)
- **Storage:** Store in a cool and dry place. Handle with care during loading & unloading.
- **Shelf Life:** 1 (One) year from date of manufacturing in sealed condition.



# USHA LUBES PRIVATE LIMITED

## USHA EL – 1

### DESCRIPTION:-

- USHA EL – 1 is a brown colored, oil based Wire Rope Lubricant.

### APPLICATION:-

- It is a brush-able lubricant that can be used in the servicing of elevator ropes, to extend its operational life.

### ADVANTAGES:-

- Excellent lubricity and penetrating capacity extend operational service life of the rope by reducing metal to metal contact and friction under load and stretched condition.
- Excellent rust & corrosion resistance protects rope.
- Excellent water repellent property fights environmental challenges.

BASE MATERIAL RESULT			
Sl.	Characteristics	Acceptance Criteria	Test Method IS 1448
1	Specific gravity at 25°C,Min.	0.83	P- 16
2	Viscosity @ 40°C, cst, Min.	15	P- 69
3	Copper corrosion @ 100°C, 3 hrs.,Max	1b	P-15
4	Test for protection against corrosion at high temp. / high humidity, hrs.,Min.	240	P-10
5	Pour Point, °C	Below -10	P-60

- **Application:** Apply by brush. Coating on rope should be thin to avoid dripping.
- **Packing:** 15 Liter, 5 Liter, 1 Liter (Plastic container).
- **Storage:** Store in a cool and dry place. Handle with care during loading & unloading.
- **Shelf Life:** 1 (One) year from date of manufacturing in sealed condition.





# USHA LUBES PRIVATE LIMITED

## USHA - W1

### DESCRIPTION:-

- USHA W 1 is a yellow colored non-bituminous, wax-based Wire Rope Lubricant.

### APPLICATION:-

- It can be used during the manufacturing of the wire rope, as well as during servicing of the wire rope to extend its operational life.
- Typical application is in engineering ropes.

### ADVANTAGES:-

- Excellent lubricity and penetrating capacity extend operational service life of rope by reducing metal to metal contact and friction under load and stretched condition.
- Excellent rust & corrosion resistance protects rope.
- Good adhesive film strength protects rope from dust and pollutant.
- Excellent water repellent property fights environmental challenges.
- Solubility in solvents or light oils, when it is necessary to clean the rope.
- Quick curing after coating.

Sl.	Characteristic	Acceptance Criteria	Test Method IS 1448
1	Kinematic Viscosity at 100°C, Cst	>15	P- 25
2	Drop Point	>70°C	P- 52
3	Flash Point (COC)	>170°C	P- 69
4	Water repellency & anti-corrosive properties	72 hrs.	IS-9182 (Part – 2), 1993 Annex - A
5	Test for protection against corrosion at high temp. / high humidity.	240 hrs.	Annex - B

- **Application Temperature:** 100 – 110 °C
- **Packing:** 185 Kg / 18 Kg (Steel Drum)
- **Storage:** Store in a cool and dry place. Handle with care during loading and unloading.
- **Shelf Life:** One (1) year from date of manufacturing in sealed condition.



# USHA LUBES PRIVATE LIMITED

## USHA WRL - 2

### DESCRIPTION:-

- USHA WRL - 2 is a black colored Bituminous Wire Rope Lubricant.

### APPLICATION:-

- USHA WRL - 2 is an anticorrosive suitable for steel wire ropes used in the fishing industry, cranes and open gears.

### ADVANTAGES:-

- Excellent lubricity and penetrating capacity extend the operational service life of the rope by reducing metal to metal contact and friction under load and stretched condition.
- Excellent rust & corrosion resistance protects rope.
- Good EP property enables to sustain load.
- Good adhesive film strength protects rope from dust and pollutants.
- Excellent water repellent property fights environmental challenges.
- Solubility in solvents or light oils, when it is necessary to clean the rope.
- Quick curing after coating.

Sl.	Characteristics	Acceptance Criteria	Test Method IS 1448
1	Kinematic Viscosity at 100°C, Cst	450 to 650	P- 25
2	Flash Point (COC)	>220°C	P- 69
3	Drop Point	>60°C	P- 52
4	Water repellency & anti-corrosive properties	>72 hrs.	IS-9182(Part – 2), 1993 Annex - A
5	Test for protection against corrosion at high temp. / high humidity	>240 hrs.	Annex - B

- **Application Temperature:** 80°C – 100°C
- **Packing:** 185 Kg / 18 Kg (Steel Drum)
- **Storage:** Store in a cool and dry place. Handle with care during loading & unloading.
- **Shelf Life:** 1 (One) year from date of manufacturing in sealed condition.



# USHA LUBES PRIVATE LIMITED

## USHA SPRAYLUBE –61

### Product Overview

USHA SPRAYLUBE – 61 is a high quality, bitumen reinforced high-performance spray-able Wire Rope Dressing. This specially formulated product provides enhanced de-watering & penetration properties, making it suitable for use on wet ropes, even in humid environments. The convenience of an aerosol dispenser makes this product ideal for controlled application on mobile cranes.

### Features and Benefits

- USHA WRL-61 Wire Rope Spray can be applied at an atmospheric temperature range of 0°C to +80°C.
- Excellent penetrating and dewatering properties making it ideal for use on wet ropes or ropes that are going into storage.
- Exhibits excellent lubrication properties which reduces wear on the wires and strands thereby maximizing the service life of the rope.
- Highly resistant to water wash-off and offers outstanding corrosion protection.
- Provides a thin, non-tacky film which prevents the build-up of dust and dirt on the wire rope.

### Directions for Storage and Use

- Store away from direct sunlight and away from any heat source.
- Storage temperature should be controlled to less than 40°C.
- Stored in accordance with the recommended guidelines; shelf life is 2 years from date of manufacture.
- Shake well before use.
- Hold can upright and spray from a suitable distance to ensure even coverage of the entire rope surface.
- For best results always apply to clean and de-grease ropes.
- Do not apply while equipment is energized in any application.
- Safety equipment such as protective eye-glasses and gloves must be worn while using this product.
- Use well ventilated area.



## USHA LUBES PRIVATE LIMITED

### USHA WRL - 61

#### Physical and chemical Properties

Sl.No.	Characteristics	Test Method IS 1448	Result
01	Appearance	Visual	Aerosol
02	Colour		Black
03	Viscosity @ 40°C	P-25	17.5 cst
04	Density @ 15°C	N/A	0.83 to 0.84
05	Water Displacement Test	IS-9182 (Part-1) 1993	72 hrs.
06	Flash point	P- 69	40°C
07	Test for protection against corrosion at high temp. / high humidity	IS-9182(Part – 2), 1993 Annex - B	>240 hrs.
08	Dry Time	N/A	Three hours
09	Solubility	N/A	Soluble in most organic solvents, insoluble in water
10	Salt spray test		18 to 22 hrs.

Pack Size: 350 ml Aerosol





# USHA LUBES PRIVATE LIMITED

## USHA SPRAYLUBE - 150

### Product Overview

USHA SPRAYLUBE – 150 is a unique wax based light bodied high -performance spray-able Wire Rope Dressing. This specially formulated product provides outstanding lubrication, penetration properties and preservation of wire ropes. The convenience of an aerosol dispenser makes this product ideal for controlled application all sizes of standing and running ropes.

### Features and Benefits

- Provides the ability to penetrate to the core of wire ropes and interstices between wires and strands.
- Wire ropes are cleaner and easy to inspect.
- Excellent penetrating and dewatering properties making it ideal for use on wet ropes or ropes that are going into storage.
- Exhibits excellent lubrication properties which reduces wear on the wires and strands thereby maximizing the service life of the rope.
- Highly resistant to water wash-off, resists oxidation and corrosion.
- Provides a thin, non-tacky film which prevents the build-up of dust and dirt on the wire rope.

### Directions for Storage and Use

- Store away from direct sunlight and away from any heat source.
- Stored in accordance with the recommended guidelines; shelf life is 1 years from date of manufacture.
- Shake well before use.
- Hold can upright and spray from a suitable distance to ensure even coverage of the entire rope surface.
- The minimum application temperature is 0°C.
- For best results always apply to clean and de-grease ropes.
- Do not apply while equipment is energized in any application.
- Use well ventilated area.



# USHA LUBES PRIVATE LIMITED

## USHA SPRAYLUBE - 150

### Physical and chemical Properties

Sl.No.	Characteristics	Test Method IS 1448	Result
01	Appearance	Visual	Aerosol
02	Colour		Brown
03	Viscosity @ 40°C	P-25	35.00 – 36.00 cst
04	Viscosity @ 100°C	P-25	5.00 – 6.00 cst
05	Specific gravity at 25°C, Min.	N/A	0.85 to 0.88
06	Water Displacement Test	IS-9182 (Part-1) 1993	72 hrs.
07	Flash point,Min.	P- 69	120°C
08	Test for protection against corrosion at high temp. / high humidity	IS-9182(Part – 2), 1993 Annex - B	>240 hrs.
09	Copper corrosion test at 100°C, 3hs. Max	P-15	1b
10	Solubility	N/A	Soluble in most organic solvents, insoluble in water
11	Pour Point, °C	P-60	0
12	Salt spray test,Min. Hrs.	P-101	50

Pack Size: 350 ml Aerosol.