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## Harsha Industries Corporation

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# HARSHA®



AN ISO 9001 : 2015  
CERTIFIED COMPANY

### Authorized Distributors

**Kanecaron**



**Borregaard**

**RANKEM**  
*Total Scientific Laboratory Solutions Provider*

**avantor™**

**Manufacturers & Importers**  
of Quality Storage Battery Material

## ABOUT US COMPANY



**President of FISSBA**



Harsha Industries Corporation is a 45-year-old company specialising in sourcing Battery Chemicals from across the globe and supplying the same in the Indian Lead Battery Manufacturing Industry. Our founder **Late. Sardar Harbir Singh Sawhney** founded Harsha brand back in the year 1980 with an idea to manufacture Hard-Case Rubber Boxes for the Lead Batteries in India as there was a huge demand for a quality product back then. But in the year 1984 our current C.E.O. **Mr Harashpal Singh Sawhney** envisioned an idea to import genuine battery chemicals from across the globe and become a sole supplier for such products in India. He has dedicated his life in the development of Energy Storage Solutions in India and is an integral part of many organisations for Lead Battery Manufacturing and Recycling across many platforms. He is an engineering graduate from Delhi College of Eng. having 45 years of experience in the battery industry.

In the Year 2002, we were amongst the first few ones to enter the market as a manufacturer for Bottom Bars and Top Bars for the Battery Industry as Mr. Harashpal Singh Sawhney imagined this business idea to work side-by-side the chemical supply business. He started this business venture with Harsha Industries' marketing head and loyalist **Mr. Hari Chand Baisla** and together they grew **H.P. Enterprises** to new heights.

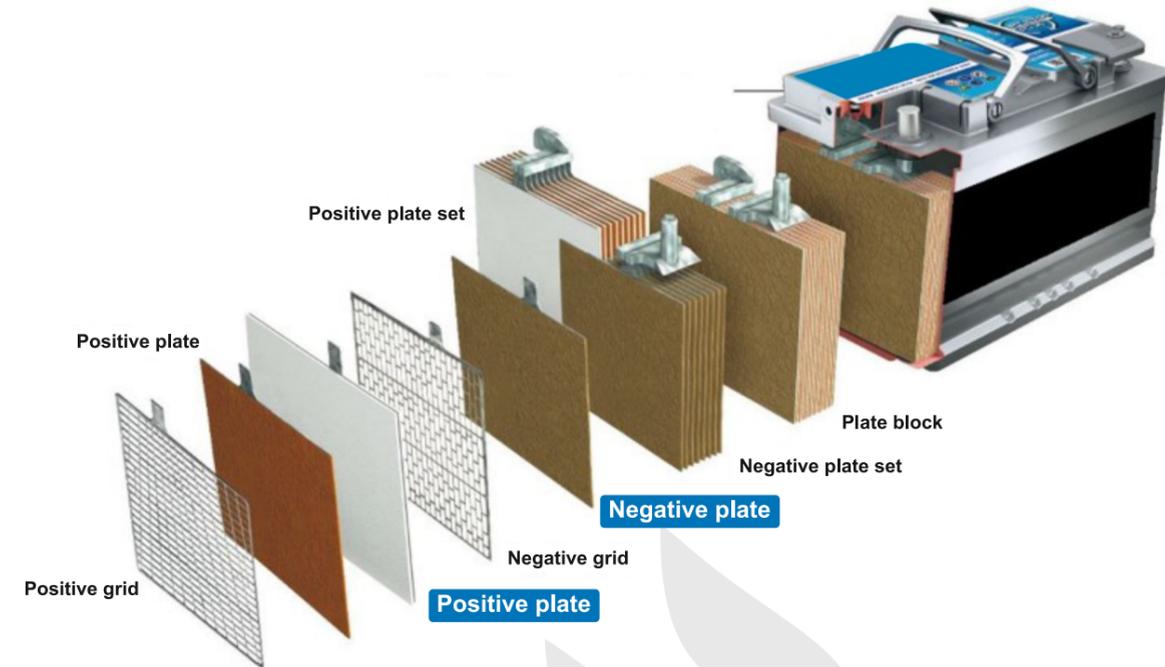
In the year 2022, our new generation joined the business with a vision to expand the business network and ensure the continuity of Harsha Industries Corporation in the Energy Storage Solutions Industry in India for many more years to come. **Mrs. Guneeta Singh** a graduate from Jesus and Mary Collage, New Delhi having a background in leading a fashion jewellery business, joined Harsha as the new Chief Marketing Officer and **Mr. Ajay Vir Singh** a graduate from Bradford University (United Kingdom) joined Harsha as the new Chief Operating Officer. The idea of future generations joining the business and taking the legacy forward is a powerful concept. The vision together is to blend generational legacy with cutting-edge technology to prioritize ethical practices in the business by selling Genuine Chemicals and Parts for all kinds of future energy solutions.

## WHY CHOOSE HARSHA INDUSTRIES ?

We are authorised distributors for Lignin products, Modacrylic Fibre, Barium Sulphate, and other Battery Chemicals in India. We have a state-of-the-art storage facility with a covered area of about 18,000 square feet to ensure safe and bulk storage of imported chemicals and battery parts. We have another 14,000 Square Feet Battery Parts Manufacturing unit in Okhla, New Delhi which is for the Bottom Bar and Top Bar business.

We are a debt-free company with 100% financial back-up from our own funds and we remain to be the same, as financial obligation can lead to business instability and maybe a closure in the future. Most of the younger companies who have just joined business or are in the same trade are heavily debited and their existence remains uncertain. We have and will always be present in the market with a larger share and zero competition.

## PRODUCT LIST



- Dyna Flock (Modacrylic Fiber-Kanecaron Brand) Japan
- Lignin Vanisperse (Borregaard A.S.) Norway
- Barium Sulphate Rankem
- Sodium Sulphate Rankem
- Ammonium Sulphate Rankem
- Carbon Black Phillips
- SLS Needles Godrej
- Graphite - Timrex KS 44
- Tetrabasic Lead Sulfate Sure Cure 100 Hammond (USA)
- Speciality Carbon Black Vulcan XC72R Cabot
- Cork Powder Moldcor / Gate Coat Compounds
- Humic Acid - Jinkeli
- Premixed Expanders - Jinkeli
- Maracell XE
- CL-08 Continental Carbon
- PAM Efficiency Activator (PTFE)
- Bottom Bars / Top Bars
- Jinkeli Graphitized Carbon Black / Charcoal
- Solvay Barium Sulphate / Blanc Fixe HD-80



# LIGNIN VANISPERSE

# DYNA FLOCK

## Kanecaron Brand Modacrylic Fiber Mfg. by Kaneka Corporation Japan.

Kanecaron is the most stable dyna flock having very good resistance to sulphuric acid and excellent dispersion for both dry as well as wet mixing and because of kidney type cross section very good adhesion to the paste.



### CHARACTERISTICS:

- Type KCE 3.3 dtex
- Denier deviation: 3.3 ± 0.33 dtex
- Tenacity (Dry): More than 1.8 cN/dtex
- Elongation: 20 ~ 50%
- Moisture: Less than 2.0%
- Specific Gravity: 1.3gm/cm<sup>3</sup>
- Fiber Length: 3mm or 5mm

## Sodium Ligno Sulphonate Mfg. by Borregaard A.S. Norway.

Vanisperse A and HT-1 are dark brown water soluble powders based on highly refined and modified sodium Ligno sulphonate derived from spruce wood liquor. Vanisperse functions as an organic expander for the lead acid battery negative electrode and provides improved high temperature performance. Vanisperse HT-1 significantly increases the life of the negative electrode under high temperature conditions for both shallow and deep cycles. Both vanisperse A and HT-1 improves cold cranking.

### CHARACTERISTICS:

	VANISPERSE A	VANISPERSE HT-1
• Dry Matter	94%	95%
• Ph (10% Solution)	7.5	10
• Insolubles (%W/W)	0.02%	0.04%
• Calcium	19ppm	147ppm
• Copper	145ppm	3ppm
• Iron	6ppm	50ppm
• Manganese	3ppm	1ppm
• Magnesium	11ppm	36ppm
• Nickel	0.1ppm	0.5ppm
• Ash	18%	20%



Borregaard

## BARIUM SULPHATE (RANKEM BRAND)

**Manufactured by Ranbaxy fine chemicals Ltd.  
(taken over by Avantor).**

Barium Sulphate Laboratory reagent grade is a fine heavy white powder free from gritty particles. Eases deposit of lead sulphate during discharge of negative electrode on its surface to enable reconversion into active lead on charge cycle.

### Guarantee Analysis

• Assay	97.50 - 101.00%
• pH (5% Aqueous Solution)	5.00 -9.00
• Identity	Passes Test
• Maximum Limit of Impurities	.
• Acid Solution Matter	< 0.50%
• Loss on Ignition	< 3.00%
• Heavy Metal ( As Pb)	<=0.005%
• Iron (Fe)	<=0.01%

## SODIUM SULPHATE (RANKEM BRAND)

**Manufactured by Ranbaxy fine chemicals Ltd.  
(taken over by Avantor).**

Crystalline white hygroscopic odourless powder. Prevents acid stratification (acid limitation).



**RANKEM**  
Total Scientific Laboratory Solutions Provider  
**avantor™**

### Characteristics:

- Minimum Purity > = 99.50%
- pH: 5 - 8
- Iron <= 0.001%
- Heavy Metals <= 0.001%
- Magnesium <= 0.01%

## AMMONIUM SULPHATE (RANKEM BRAND)

**Manufactured by Ranbaxy fine chemicals Ltd.  
(taken over by Avantor).**

Laboratory reagent grade. White colourless crystals. Used for washing (pickling) of tubular plates.

### Characteristics:

- Minimum Purity > = 99%
- pH: 5 - 6
- Iron <= 0.002%
- Heavy Metals <= 0.002%
- Chloride <= 0.005%

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B0077 25KG

05



B0078 50KG

06

## CARBON BLACK PHILLIPS BRAND

### Manufactured by Phillips Carbon Black Ltd.

Carbon Black (amorphous) is available in pellet and powder form. Commonly used grades for battery industry are N330 and N550.

Carbon improves the electrical conductivity and the negative electrode volume porosity and prevents its deep discharge.

### Characteristics:

- pH > 6
- Decomposition temperature > 315°C
- No. 325 Sieve Residue% (D1514) 0.100 MAX
- No. 35 Sieve Residue% (D1514) 0.0010 MAX
- Fines% (D1508) 10 MAX
- Pellet hardness-Av of 20 pellets g.f (D5230) 15.0 - 45.0
- Ash% (D1506) 0.75 MAX



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## SOLVAY BARIUM SULPHATE / BLANC FIXE HD-80

### Manufactured by Solvay Italy

Blanc fixe HD-80 is a chemically precipitated pure barium sulphate. It is resistant to water, acid, alkali and organic solvents.

### Characteristics:

- It has good dispersion properties.
- It has extremely low chloride content.
- Average particle size of 1 micron.

### Physical Properties:

Average particle size	Sedigraph	1.0µm
Density		4.4 g/cm <sup>3</sup>
Tapped density		1 Kg/l
Specific Surface Area	(BET)	2.5 m <sup>2</sup> /g

### Typical Analysis:

BaSO <sub>4</sub>	DIN 55911	>99%
Lightness L*	ISO 7724	98 %
Oil Index	ISO 787/5	14 g/100g
pH	ISO 787/9	9
Sieve residue >45µm	DIN 53195	< 0.01 %
Electric conductivity	ISO 787/14	120 µS/cm
Soluble in water	ISO 787/3	0.05%
Chloride	ISO 787/13	0.0005%
Volatile Substance	ISO 787/2	0.05%



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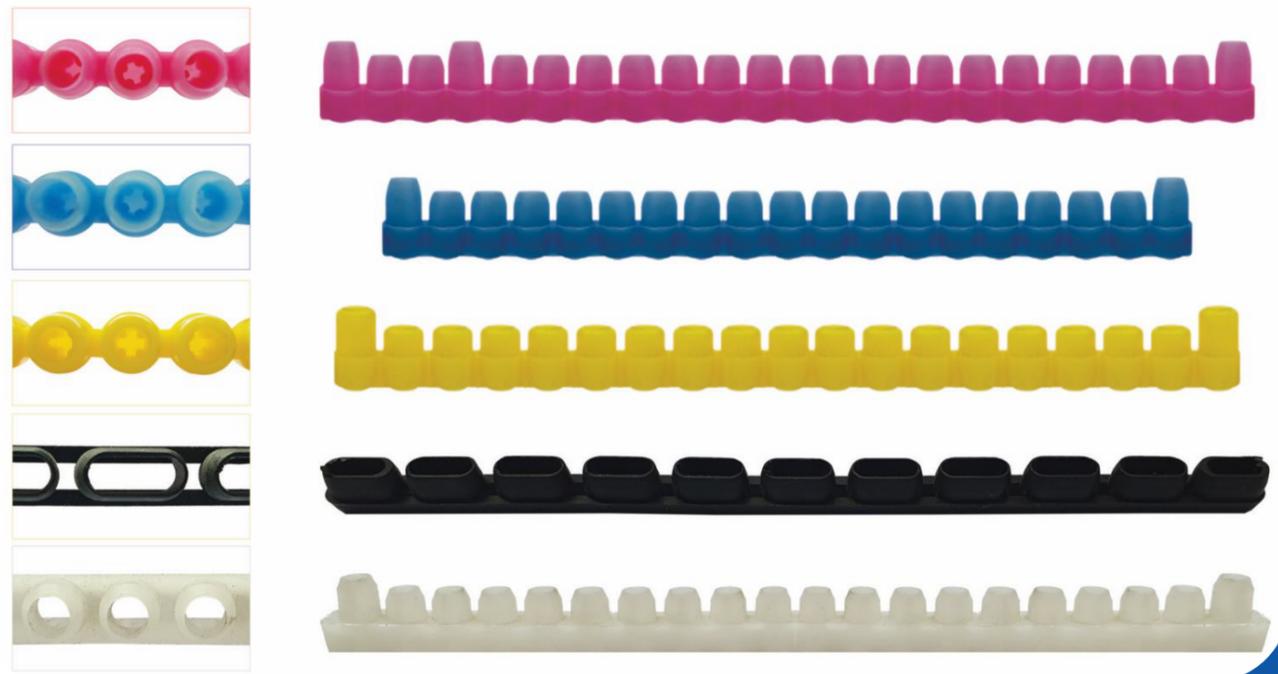
# BOTTOM BARS / TOP BARS

**Manufactured by Harsha Industries Corporaion.**

Available size of Bottom Bar & Top Bar:  
5mm, 6mm, 6.2mm, 7.3mm, 8mm, capsule type.

## Characteristics:

- Manufactured using virgin plastic.
- Good acid resistance for long life.
- Unbreakable.
- In house tool room for greater production flexibility.



Sr. No.	Item Name	Size	Pitch	Lock Size	Standard Packing (nos)
1	Bottom bar	5 mm x 25 Spine (M)	5.8mm	2.0mm	5000
2	Bottom bar	5.5 mm x 23 Spine (LI)	6.5mm	1.9mm	5000
3	Bottom bar	6 mm x 19 Spine (M)	7.2mm	2.0mm	4000
4	Bottom bar	6 mm x 20 Spine (M)	7.2mm	2.0mm	4000
5	Bottom bar	6 mm x 22 Spine (M)	7.2mm	2.0mm	4000
6	Bottom bar	6.2 mm x 19 Spine (Js) H	7.25mm	2.15mm	4000
7	Bottom bar	6.2 mm x 20 Spine (SK)	7.20mm	2.0mm	4000
8	Bottom bar	6.2 mm x 20 Spine (LI)	7.3mm	2.1mm	3000
9	Bottom bar	6.2 mm x 21 Spine (R)	7.2mm	2.1mm	3000
10	Bottom bar	6.2 mm x 22 Spine (Js)H	7.25mm	2.1mm	4000
11	Bottom bar	6.2 mm x 22 Spine (LI)	7.6mm	2.2mm	3500
12	Bottom bar	6.3 mm x 19 Spine (LU)	7.6mm	2.0mm	2500
13	Bottom bar	6.2 mm x21 Spine (LU)	7.6mm	1.9mm	3000
14	Bottom bar	6.3 mm x 22 Spine (LU)	7.6mm	2.0mm	3000
15	Bottom bar	6.5 mm x 20 Spine (LI)	7.6mm	2.0mm	3500
16	Bottom bar	6.5 mm x 22 Spine (LI)	7.6mm	2.0mm	2500
17	Bottom bar	6.7 mm x 22 Spine (LI)	7.6mm	2.0mm	3500
18	Bottom Bar	7.2mm x 19 Spine (SK)	8.6mm	2.4mm	2500
19	Bottom bar	7.2 mm x 19 Spine (LI)	8.3mm	2.4mm	3000
20	Bottom bar	7.3 mm x 15 Spine (M)	8.5mm	2.8mm	3000
21	Bottom bar	7.3mm x 17 Spine (M)	8.5mm	2.8mm	2500
22	Bottom bar	7.3 mm x 19 Spine (M)	8.5mm	2.8mm	2500
23	Bottom bar	7.4 mm x 19 Spine (LU)	8.6mm	2.6mm	2500
24	Bottom Bar	7.5mmx16 Spine (Apex)	8.8mm	2.7mm	3000
25	Bottom bar	8mm x 15 Spine (LU)	9.7mm	2.6mm	3000
26	Bottom Bar	8mm x 15 Spine (SK) H	9.7mm	2.8mm	2500
27	Bottom Bar	8mm x 15 Spine (M)	9.5mm	3.0mm	2500
28	Bottom Bar	8mm x 18 Spine (SK)	9.4 mm	2.9mm	2500
29	Bottom bar	11 Tubes GC (LU)	13.5mm	2.2mm	3000
30	Top Bar	11 Spine (LU)	13.5mm	N/A	4000
31	Top Bar	5.5 mm x 23 Spine (LI)	6.5mm	N/A	5000
32	Top Bar	6 mm x 21 Spine (M)	7.2mm	N/A	4000
33	Top Bar	6.3 mm x 21 Spine (Rad)	7.2mm	N/A	3000
34	Top Bar	6.5 mm x 22 Spine (LI)	7.6mm	N/A	3000
35	Top Bar	6.2 mm x 20 Spine (LI)	7.3mm	N/A	4000
36	Top Bar	7.3 mm x 19 Spine (LI)	8.4mm	N/A	3000

# CORK POWDER MOLDCOR / GATE COAT COMPOUNDS

## Manufactured by Moldcor International

Moldcor cork sprays are binderless products ready to use with no health hazards. Moldgate coating compounds are formulated to insulate the entrance surface of the mold and protect the molten lead alloys from temperature variation.

### Characteristics:

- Acts as a barrier between mould metal and casting alloy for easy release.
- Acts as a heat insulator.
- Gives maty finish on surface of casting for better paste adhesion.



# TETRABASIC LEAD SULFATE SURECURE 100

## Manufactured by Hammond Group Inc. USA

Surecure is used as a seed crystal to promote rapid formation of tetrabasic lead sulfate during paste mixing and curing.

The benefits of using surecure100 are lead and operational cost savings, superior performance and longer life of batteries.

### Characteristics:

- Tetrabasic Lead Sulfate 98.2%
- Moisture 0.15%
- Free lead 0.0%
- Median Parcel Size (microns) 1.2
- Color White to light yellow



# SPECIALITY CARBON BLACK VULCAN XC72R CABOT

## Manufactured by Cabot Corporation USA

Vulcan XC72R is a fluffy form of conductive carbon black having good dispersion and good conductivity which improves the capacity of the batteries. Suitable for e-rickshaw batteries.

### Characteristics:

Property	Typical Values	Test Method
• Iodine Number (mg/g)	253	ASTM D1510
• OAN (cc/100g)	192	ASTM D2414
• 325 mesh Residue (ppm)	<10	ASTM D1514
• Tint (%)	87	ASTM D3265



# GRAPHITE

## HUMIC ACID - JINKELI

### Manufactured by Shandong Jinkeli Power Sources Technology

Humic acid improves the discharge performance of lead acid batteries at low temperature and the battery performance. Prevents the caking of the cathode active material in the cycle process.



## PREMIXED EXPANDERS - JINKELI

### Manufactured by Shandong Jinkeli Powder Sources Technology

Formulated to provide outstanding battery performance.

### Characteristics:

- Precisely weighed, stable and easy to use.
- Significantly improves charge acceptance and overall performance.
- Low water loss rate and extended cycle life.



EXPANDER JEV

### Graphite Improves Electrical Conductivity.

- Significant cycle life improvement
- Capacity improvement
- Chemical stability
- Better charge acceptance



## GRAPHITE KS 44

## CL-08 CONTINENTAL CARBON

### Manufactured by Continental Carbon

CL-08 is a high-purity, high-conductivity carbon black used in various applications, including enhancing performance in tires, cables, and potentially conductive polymers or batteries, designed by Continental Carbon Company to offer superior electrical properties and reinforce materials.

Charecteristics	UOM	Test Method	Typical Values
Iodine Number	mg/g	ASTM D 1510	730.0
BET surface Area	m2/g	ASTM D 6556	780.0
DBP	cc/100g	ASTM D 2414	350
Heat Loss	wt%	ASTM D 1509	1.6
Sieve Residue # 325	ppm	ASTM D 1514	22
Sieve Residue # 35	ppm	ASTM D 1514	0
pH		ASTM D 1512	7.5
iron (Fe)	ppm	Wet Method	250

