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Serefon™- Perfect combination of Biobased and PU

Serefon™—A new biobased brand established by Huafon Group, committed to becoming a pioneer and leader in the biobased PU industry

Brand Philosophy

Originating from nature, Embrace better future

Core Vlaue

Sustainable, Environmentally friendly, Biobased, Green Future

Brand Vision

Become a world-class biobased PU material supplier

R&D History

2 years of R&D exploration

80 million capital investment

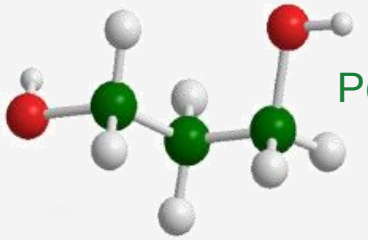
15 Engineers in R&D Team

More than **65%** of masters

Biobased Chain

Industrial Corn

Fermentation



Biobased PDO

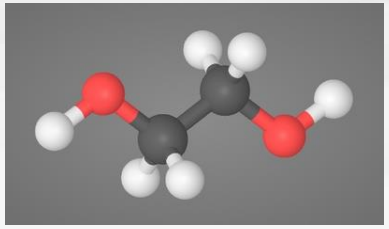
Polymerization

Biobased Polyols

Replace

Biobased Sole

Petroleum



Chemicals

Polyols

Industrial Chain

On June 1, 2022, Huafon Group officially acquired the bio-based product-related business and technology spun off by DuPont, and established **Covation Biomaterials**. Including Susterra® and Zemea® Production Sites (PDO) in Tennessee, USA and Sorona® Production Site (PTT) in North Carolina, USA.

Serefon™ Technology Advantages

Reactive Addition

- Biobased materials produce PU chemical bonds through polymer chemical reactions, and the product performance is more stable.

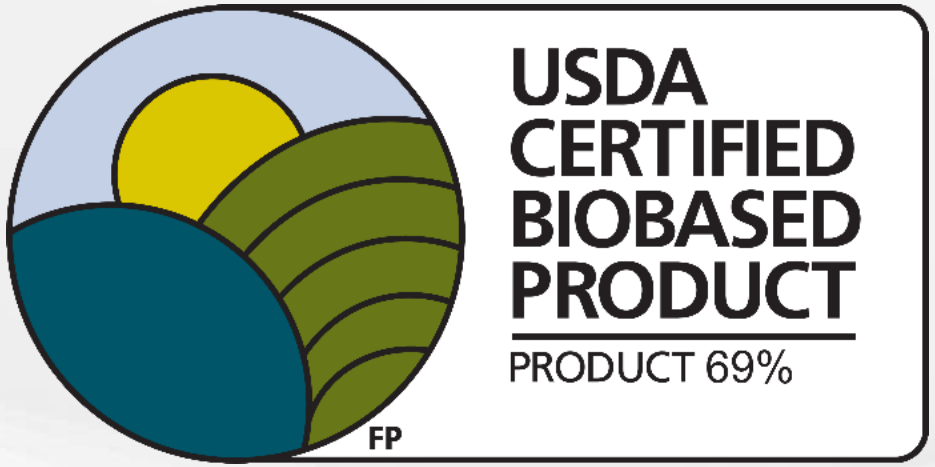
Leading Technology

- Using the world's leading Susterra® biobased technology
- Sufficient R&D technology reserves

High Quality Assurance

- Mature Serefon™ product system
- Stable raw material supply chain guarantee

Biobased Certification



USDA BioPreferred Program certificated

Serefon™ currently has 9 bio-based products with a biobased content ≥22% that have been certified by the USDA BioPreferred Program. 11 biobased products have been tested by the BETA laboratory and meet the product description.

Serefon™-Insole

Biobased Content

11%/25%/50%/65%

High Rebound

Resilience is more than 30% better than traditional insoles

Better Physical Properties

Tear strength is more than 30% better than traditional insoles

High Formula Tolerance

Both traditional production line and PP board line can be produced

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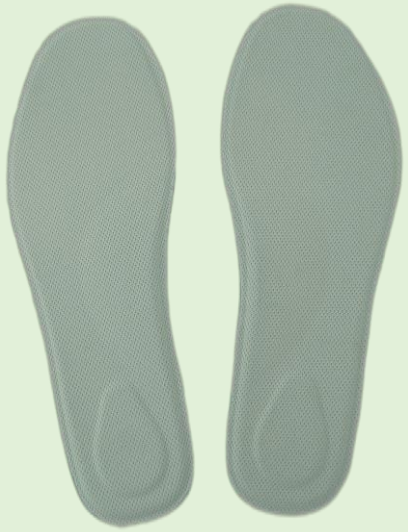
Serefon™-11% Biobased Content



JF-P-586-11/JF-I-696

Polyester based

- Density: 0.30-0.35 g/cm^3
- Compression Set: ≤5 %
- Hardness: Shore C 25-30
- Resilience: ≥35%
- Good operability

JF-P-596-11/JF-I-696-50

Polyether based

- Density: 0.27-0.30 g/cm^3
- Compression Set: ≤5 %
- Hardness: Shore C 25-30
- Resilience:: ≥40 %
- Lower Density, Better Rebound

Serefon™-25% Biobased Content

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 26%

JF-P-586-25/JF-I-696

Polyester based

- Density: 0.30-0.35 g/cm^3
- Compression Set: ≤5 %
- Hardness: Shore C 25-30
- Resilience: ≥45%
- Good Physical Properties

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 25%

JF-P-596-28/JF-I-696

Polyether based

- Density: 0.27-0.30 g/cm^3
- Compression Set: ≤5 %
- Hardness: Shore C 18-22
- Resilience:: ≥40 %
- Brand preferred

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Serefon™-50% Biobased Content

JF-P-596-50/JF-I-696-50

Polyether based

- Density: 0.25-0.30 g/cm^3
- Hardness: Shore C 25-30
- Compression Set: ≤5 %
- Rebound: ≥50 %
- High value-added

Serefon™-65% Biobased Content

JF-P-596-65/JF-I-696-50

Polyether based

- Density: 0.26-0.30 g/cm^3
- Hardness: Shore C 25-30
- Compression Set: ≤10 %
- Rebound: ≥50 %
- High Biobased Content

Serefon™- Open Cell Foam

Biobased Content

11%/25%

Low Deformation

Compared with traditional products, the compression deformation is increased by 50%

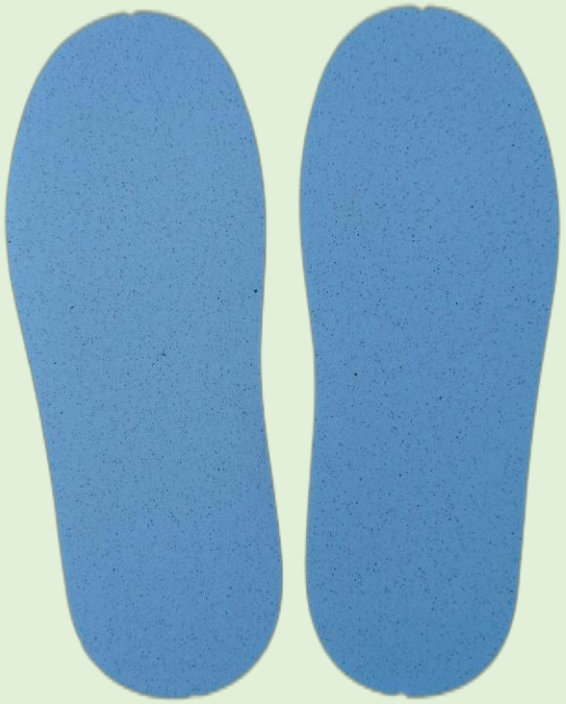
High Toughness

Tensile strength and tear strength is more than 20% better than traditional products

Good Rebound

Resilience is more than 20% better than traditional products

Serefon™-11% Biobased Content



JF-P-716-10/JF-I-632+JF-I-635

Polyether based

- Density: 0.11-0.15 g/cm^3
- Hardness: Shore C 25-30
- Compression Set: ≤5 %
- Rebound: ≥30 %
- Light and Breathable

Serefon™-25% Biobased Content

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 27%
FP

JF-P-716-25/JF-I-632+JF-I-635

Polyether based

- Density: 0.11-0.15 g/cm^3
- Hardness: Shore C 17-35
- Compression Set: ≤5 %
- Rebound: ≥30 %
- Soft and skin-friendly

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Serefon™-Midsole

Biobased Content

22%/25%/50%/70%

High Rebound

Resilience ≥50%

Low VOCs

Lower VOCs than other midsoles

Mature Formula

TPU Vacuuming Film

Spraying

Serefon™-22% Biobased Content

JF-P-586-25/JF-I-9020

Polyester based

- Density: 0.35-0.50 g/cm^3
- Hardness: Shore C 45-60
- Tensile Strength: ≥2.3 MPa
- Elongation: ≥400 %
- Angle Tear Strength: ≥9.2 kN/m
- Split Tear Strength: ≥1.4 kN/m
- Rebound: ≥40 %
- Good operability

Serefon™-25%/50%70% Biobased Content

JF-P-760-25/JF-I-860

25%/Polyether based

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 28%

JF-P-760-50/JF-I-860

50%/Polyether based

JF-P-760-70/JF-I-860

70%/Polyether based

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 69%

- Density: 0.30-0.40 g/cm^3
- Hardness: Shore C 50-60
- Rebound: ≥50 %
- Compression Set: ≤5.0%
- High Rebound

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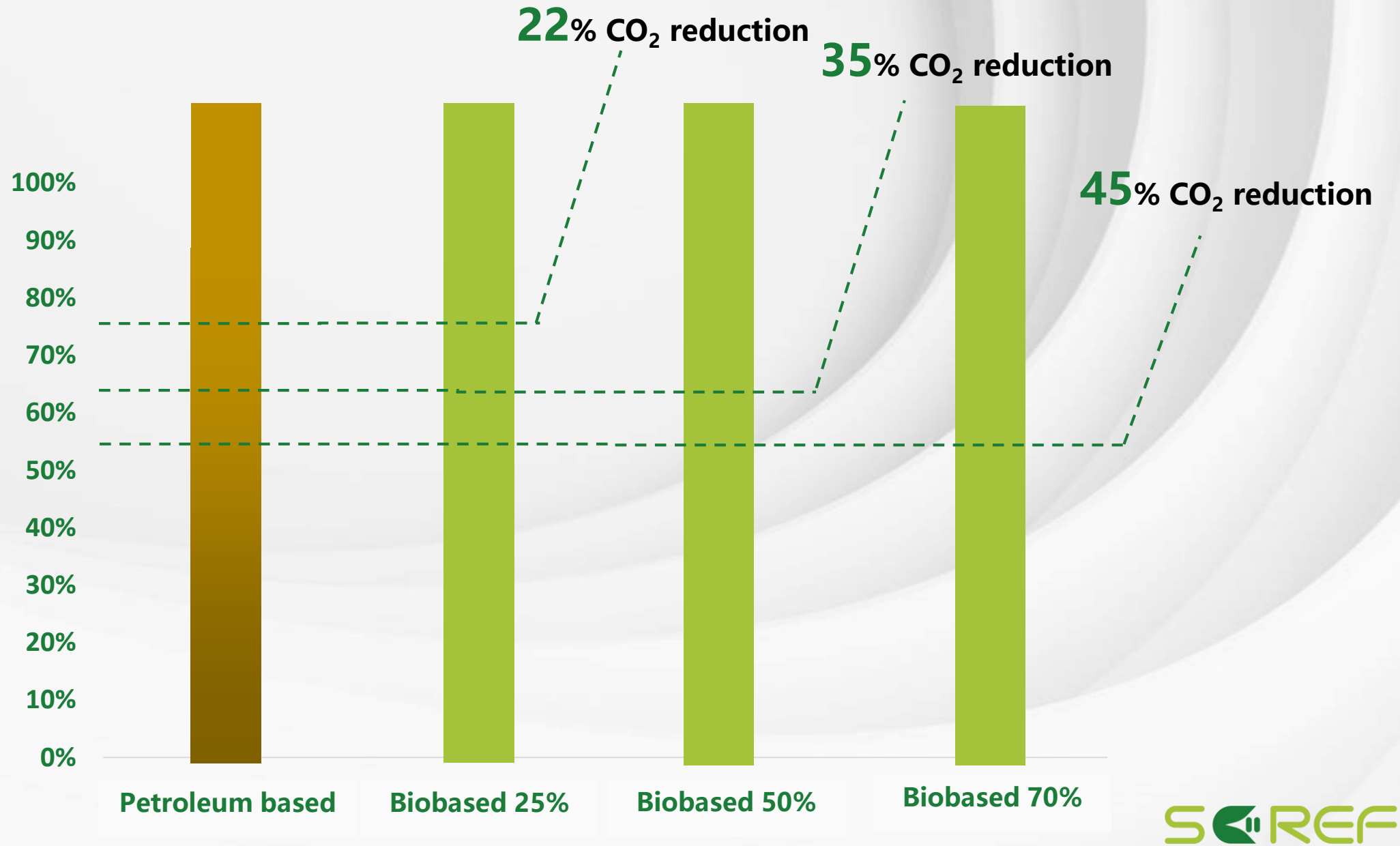
CO_2 Emission Comparison

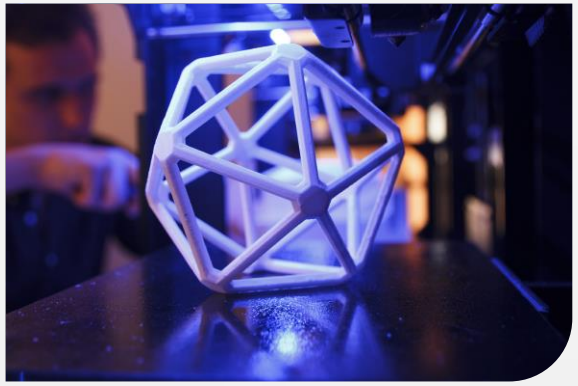


Future Outlook

3D Printing

Healthcare

Model



Automobile

Seat

Pipe

Clothing

Underwear

Swimsuit

Spraying

Fully covered without air holes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New Materials New Life