

COMPANY PROFILE

Dexu New Material (Guangzhou) Co., Ltd. was founded in 2012 in Guangzhou Science City, a leading innovation hub for China's new materials sector. As an innovative enterprise, we specialize in R&D, production and sales of metal corrosion prevention products that are widely used in a variety of industries including automotive, marine, aerospace, semiconductor 3C electronics, new energy, and water-based anticorrosive coating. The products may also be used for industrial lubrication, metal surface treatment, heavy oil stain cleaning, and educational toys. Our major customers include BASF, HP, Henkel, Mattel, MOOSE, China State Shipbuilding Corporation.

The company is spearheaded by a high-caliber R&D team featuring postdoctoral researchers from Tsinghua University and prestigious universities of the U.S. and Europe. Our innovative team currently holds 13 granted patents, has received numerous provincial and municipal innovation funds and awards.

Our 16,000 square meter facility is ISO9001 accredited and includes GMP production workshops and highly automatic and intelligently controlled production lines which enable us to meet global clients' demands for premium quality and customized production.



*Innovating Green Materials,
Safeguarding Human Health.*



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Dexu New Material

Degreaser

Degreasing Surfactant DX106

DX106 is a degreasing surfactant with strong detergency, alkali resistance, good compatibility, and environmentally friendly properties without phosphorus or nitrogen. Its degreasing and cleaning power is superior to NP and OP surfactants, and it is suitable for a wide pH range. It is widely used in industrial cleaning and civilian cleaning.

Specifications

Product name	DX106
Appearance (25°C)	Light yellow to colorless transparent liquid
Density (20°C, g/cm ³)	1.09
pH Value (1% aqueous solution)	9.0-11.0
Surface tension (1% aqueous solution, mN/m)	30.5
Cloud point (1% aqueous solution, °C)	> 95
Stability	1 year

Performance characteristics

- Good cleaning ability for various oil stains.
- High alkali resistance, capable of withstanding 22% NaOH aqueous solution.
- Excellent water solubility, washability, and compatibility.
- Efficient oil and grease removal ability, especially suitable for high-quality phosphorus free environmental protection, room temperature heating industrial washing.

Industrial Applications

- For cleaning systems, it is recommended to add 10% - 20% DX106 of the original solution.

Tea Dodecylbenzenesulfonate DX129

DX129 is a mild surfactant used in cleaning systems, which has excellent dust removal, oil removal, and aluminum corrosion inhibition effects. It is an important component of cleaning agents.

Specifications

Product name	DX129
Appearance (25°C)	Light yellow transparent liquid
Density (20°C, g/cm ³)	1.05
pH Value (1% aqueous solution)	5.5-7.5
Surface tension (1% aqueous solution, mN/m)	33.9
Stability	1 year

Performance characteristics

- Acid resistance: It has excellent tolerance to citric acid, oxalic acid, sulfonic acid, sulfamic acid and phosphoric acid.
- High-efficiency oil removal: possesses excellent cleaning ability for various oils on metal surfaces.
- High-efficiency dust removal: exerts outstanding cleaning effect on dust.
- It exhibits excellent corrosion inhibition on aluminum materials in acidic systems.

Industrial Applications

- It can be used in acidic systems to protect aluminum materials from corrosion, with a recommended undiluted addition amount of 2% - 5%.
- It can be applied in wax remover systems, with a recommended undiluted addition amount of 4% - 8%.
- It can be used in organic acid degreasing systems, with a recommended undiluted addition amount of 2% - 5%.

Auxiliary of Cleaning Heavy Oil DX103

DX103 is a cationic surfactant that features no foam, acid and alkali resistance, good compatibility, and strong grease removal capability for heavy oil stains. It can be compounded with anionic, cationic, and non-ionic surfactants as a cleaning adjuvant, providing excellent stripping and cleaning effects on heavy oil residues. It is widely used in various hard surface cleanings such as kitchen stoves, vehicles, and metal parts.

Specifications

Product name	DX103
Ionic Type	Cationic
Appearance (25°C)	Colorless transparent liquid
Density (20°C, g/cm ³)	1.45
pH Value (1% aqueous solution)	1.5-3.5
Surface tension (1% aqueous solution, mN/m)	34.3
Shelf life	1 year

Performance characteristics

- Excellent stripping and cleaning effects on difficult-to-clean heavy oil residues.
- Acid resistance; remains clear and transparent without precipitation in a 30% citric acid water solution.
- Alkali resistance; remains clear and transparent without precipitation in a 30% sodium hydroxide water solution.
- No foam; the aqueous solution is colorless and transparent.

Industrial Applications

- When used in combination with DX106, DX6508, it can be applied to heavy oil stain cleaning, with a recommended dosage of 1%-3% of the original liquid.
- When used in combination with DX-NF109, it can be applied to foam-free spray cleaning, with a recommended dosage of 1%-3% of the original liquid.