



环保增塑剂专业生产商



保护我们共同的家园
To protect our common home



科兴精神

创新以人为本，环保从我开始

经营理念

以优质的产品占领市场；

以热忱的服务开拓市场；

以客户的需求满足市场。

服务理念

一切让用户放心，是科兴人的使命。

一切让用户满意，是科兴人的追求。

安全理念

以人为本，安全至上

质量理念

质量是生存之本，是效益之源，是品牌之魂

COMPANY PROFILE 企业简介

山东科兴化工有限责任公司是一家集环保增塑剂、塑料橡胶阻燃剂、塑料添加剂产品的研发、生产、销售于一体的大型生产型企业。公司座落在东营广饶县大王经济开发区，公司现（包括聘用）有博士教授，高级工程师，工程师等各类专业技术人员，科技人员占公司人员的 40% 以上，与江南大学、四川大学，北京化工大学有很好的合作关系。是全国规模最大的环保增塑剂、阻燃剂产品的研发生产基地之一。下设东营科兴国际贸易有限公司，主要负责公司的进出口业务。

公司目前主要产品：

增塑剂：乙酰基柠檬酸三丁酯（ATBC）、柠檬酸三丁酯（TBC）、柠檬酸三乙酯（TEC）、己二酸二辛酯（DOA）、癸二酸二辛酯（DOS）、癸二酸二丁酯（DBS）、硬脂酸丁酯、环氧大豆油（ESO）、三乙二醇二异辛酸酯（3G8）、对苯二甲酸二辛酯（DOTP）、邻苯二甲酸二异壬酯（DINP）、邻苯二甲酸二癸酯（DPHP）、邻苯二甲酸二辛酯（DOP）、邻苯二甲酸二丁酯（DBP）。

阻燃剂：复合阻燃剂、硼酸锌、三氧化二锑、氢氧化镁、氢氧化铝等。

塑料添加剂：氯化聚乙烯（CPE）、氯化聚氯乙烯（CPVC）、高氯化聚乙烯（HCPE）

公司具备完善的质量保证体系，拥有国内最先进的色谱仪系列产品检测设备，产品合格率始终保持 100%。产品质量通过了符合欧美标准的 SGS 检测认证、REACH 认证及 9001: 2008 国际质量体系认证、ISO14001 环境管理体系认证，OHSAS18001 职业健康安全管理体系认证。中国化工会精细化工专业委员会授予“质量过硬、优秀重点推荐产品”，公司荣获“质量服务信誉 AAA 级明星企业”，中国质量信誉协会确认为“国家权威检测 2008-2009 年质量、信誉、服务三优企业”，连年被省、市工商行政管理局授予“守合同重信用企业”。

面对新世纪的挑战和机遇，山东科兴化工有限责任公司将“以优质的产品占领市场，以热忱的服务开拓市场，以客户的需求满足市场”，与国内外广大客户同仁真诚合作，携手共谋发展！

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乙酰基柠檬酸三丁酯 (ATBC)

产品用途及性能

该产品是无毒无味安全增塑剂，其耐热性、耐寒性、耐光性和耐水性能优良。适用于食品包装、儿童玩具、医用制品等领域。美国 FDA 批准用于肉食品包装材料及玩具用料。

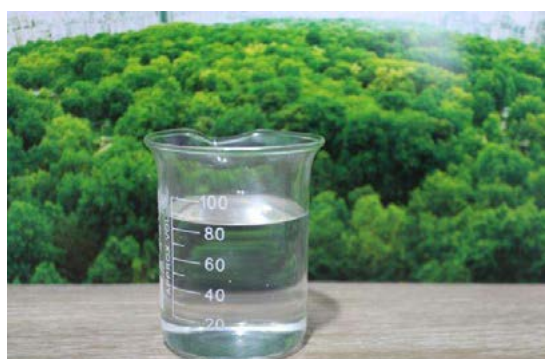
由于本品优良的性能，大量用于新鲜肉类及其制品的包装、乳制品包装、聚氯乙烯医用制品、口香糖等。树脂经本品增塑后呈现良好的透明度和低温挠曲性能，并在不同介质中具有低挥发性和抽出率，在溶封时对热稳定性好、不变色。用本品制备的润滑油具有良好的润滑性能。

产品质量指标

产品名称	乙酰基柠檬酸三丁酯 (ATBC)
生产商	山东科兴化工有限责任公司
检测标准	企业标准
外观	透明，无可见杂质的液体
气味	稍有气味
酯含量，% ≥	99.0
色度，（铂 - 钴）号 ≤	30
酸值（mgKOH/g）% ≤	0.2
水分，% ≤	0.1
折光指数（25°C /D）	1.4410-1.4425
密度（20°C），g/cm ³	1.045-1.055
闪点°C ≥	204

包装

桶装：每桶净重 200KG,16 吨 /20 尺小柜
液袋：22 吨 /20 尺小柜
吨桶：每桶净重 1000KG,20 吨 /20 尺小柜



Acetyl Tributyl Citrate (ATBC)

Production application

Acetyl Tributyl Citrate (ATBC) is a kind of nonpoisonous,tasteless and safe plasticizer, its heat resistant low temperature resistance, light resistance , water resistance are all good.It is suitable for the production of food package,children' s toy and medical product .ATBC is allowed to be used as the material of package of meat and toys.

Because of the good nature ,it is widly used in the package of meat and milk product,PVC medical product,and chewing gum ,Resin will have good transparency after plastification,and has low volatility and sampling fraction Lube oil ,made with ATBC ,has good lubrication property.

Technical index

Product	Acetyl Tributyl Citrate (ATBC)
Manufacturing	Shandong Kexing Chemical CO.,LTD
Examination project	Enterprise Standard
Appearance	Transparent liquid,no suspended substance
Odor	Slight odor
Color(Pt-Co)	Max.30
Density(20°C ,cm ³ /g)	1.045-1.055
Easter Contact%	Min.99.0
Moisture,%	Max.0.1
Acidity (mgKOH/g)	Max.0.1
Refractive index (25°C /D)	1.4410-1.4425
Flash Point °C	Min.204

Packing

Drum:200kg/drum,16.0mt/20fcl
Flexitank:22mt/20fcl
IBC Drum:1000kg/ibc,20mt/20fcl



柠檬酸三丁酯 (TBC)

产品用途及性能

无色透明油状液体，沸点 170 °C（133.3Pa），闪点（开杯）185 °C。溶于多数有机溶剂。本品挥发性小，与树脂的相容性好，增塑效果高。可赋予制品良好的耐寒性、耐水性和抗霉性。无毒，LD50=2900mg/kg。本品为无毒增塑剂，可用于无毒 PVC 造粒，制作食品包装材料，儿童软质玩具，医用制品，聚氯乙烯、氯乙烯共聚物、纤维素树脂的增塑剂。

产品质量指标

产品名称	柠檬酸三丁酯 (TBC)
生产商	山东科兴化工有限责任公司
检测标准	企业标准
外观	透明，无可见杂质的油状液体
气味	稍有气味
酯含量，% ≥	99.0
色度，（铂 - 钴）号 ≤	30
酸值（mgKOH/g）% ≤	0.2
水分，% ≤	0.1
折光指数（25°C /D）	1.443-1.445
密度（20°C），g/cm ³	1.037-1.047
闪点°C ≥	185

包装

桶装：每桶净重 200KG,16 吨 /20 尺小柜
液袋：22 吨 /20 尺小柜
吨桶：每桶净重 1000KG,20 吨 /20 尺小柜



Tributyl Citrate (TBC)

Production application

Tributyl Citrate (TBC) is colorless oily liquid, it can be dissolved in most of the organic solvent, has low volatility plasticized high efficiency, it is dissolved in resin easily, TBC can increase the product's low temperature resistance, water resistance fungus resistance, it is nonpoisonous. LD=2900mg/kg.

TBC is nonpoisonous plasticizer and can be used as the plasticizer in the production of Nonpoisonous PVC granulation, food package, children's toy and medical product, polrvinyl chlofide, vinyl chloride copolymer.

Technical index

Product	Tributyl Citrate (TBC)
Manufacturing	Shandong Kexing Chemical CO.,LTD
Examination project	Enterprise Standard
Appearance	Transparent liquid, no suspended substance
Odor	Slight odor
Color(Pt-Co)	Max.30
Density(20°C ,cm ³ /g)	1.037-1.047
Easter Contact%	Min.99.0
Moisture,%	Max.0.1
Acidity (mgKOH/g)	Max.0.1
Refractive index (25°C /D)	1.443-1.446
Flash Point °C	Min.185

Packing

Drum: 200kg/drum, 16.0mt/20fcl
Flexitank: 22mt/20fcl
IBC Drum: 1000kg/ibc, 20mt/20fcl



柠檬酸三乙酯 (TEC)

产品用途及性能

柠檬酸三乙酯为无毒增塑剂，广泛应用于纤维素树脂和乙烯基树脂的增塑剂，食品中作为膨松保型剂能很好地提高烘烤食品的发泡性能，改善膨松状态，作为抗氧化剂用来稳定大豆油、色拉油、人造奶油、起酥油及其他食用油脂，作为增香剂可用于软饮料冷饮、糖果、焙烤食品中增加风味，还被用作螯合剂和载体溶剂。特别适用于油墨涂料，无毒 PVC 造粒，制药工业，儿童软质玩具，医用制品，调配香精香料，化妆品制造等行业。

产品质量指标

产品名称	柠檬酸三乙酯 (TEC)
生产商	山东科兴化工有限责任公司
检测标准	企业标准
外观	透明，无可见杂质的油状液体
气味	稍有气味
酯含量，% ≥	99.0
色度，（铂 - 钴）号 ≤	30
酸度（以柠檬酸计）% ≤	0.1
水分，% ≤	0.25
密度 (20°C),g/cm ³	1.135-1.139
闪点°C ≥	155

包装

桶装：每桶净重 230KG,18.4 吨 /20 尺小柜
液袋：22 吨 /20 尺小柜
吨桶：每桶净重 1150KG,23 吨 /20 尺小柜



Triethyl Citrate

Production application

Triethyl citrate as a non- toxic plasticizer, is widely used in cellulose resin and vinyl resin plasticizer,food security as a leavening agent can be a good model to improve the foaming properties of baked food products to improve the swelling loose state,as an antioxidant used to stabilize soybean oil, salad oil, margarine ,shortening and other edible oils and fats ,as a flavor enhancer can be used for soft drinks , cold drinks ,candy,baked goods to add flavor,also used as a chelating agent and the carrier solvent .

Especially suitable for ink coating ,non-toxic PVC granulation,the pharmaceutical industry,children' s soft toys,medical products,deployment of flavors and fragrances,cosmetics and manufacturing industries.

Technical index

Product	Triethyl Citrate(TEC)
Manufacturing	Shandong Kexing Chemical CO.,LTD
Examination project	Enterprise Standard
Appearance	Transparent liquid,no suspended substance
Odor	Slight odor
Color(Pt-Co)	Max.30
Density(20°C ,cm ³ /g)	1.135-1.139
Purity	Min.99.0
Moisture,%	Max.0.25
Acidity (mgKOH/g)	Max.0.1
Flash Point °C	Min.155

Packing

Drum:230kg/drum,18.4mt/20fcl
Flexitank:22mt/20fcl
IBC Drum:1150kg/ibc,23mt/20fcl



己二酸二辛酯 (DOA)

产品用途及性能

DOA 为典型的耐寒型增塑剂，本品增塑效率高，受热增塑效率高，受热变色性小，适用于聚氯乙烯、氯乙烯共聚物、聚苯乙烯和合成橡胶等多种树脂。可赋予制品良好的低温柔软性和耐光性，制品的手感性较好。多与 DOP、DBP 等主增塑剂并用于耐寒性农业薄膜、冷冻食品包装膜、电线电缆包覆层、人造革、板材、户外用水管等。用于增塑糊时，糊料初始粘度低，粘度稳定性好。美国、法国、意大利、日本、荷兰等国家都许可本品应用于食品包装材料中。

质量指标

产品名称	己二酸二辛酯 (DOA)
生产商	山东科兴化工有限责任公司
检测标准	企业标准
外观	透明液体，无悬浮物
气味	稍有气味
酯含量 % $\geq$	99.0
密度 (20°C) g/cm ³	0.925-0.927
酸值 (mgKOH/g) $\leq$	0.10
闪点, °C $\geq$	195
水分, % $\leq$	0.1
色度 (铂 - 钴) 号 $\leq$	30

包装

桶装：每桶净重 190KG,15.2 吨 /20 尺小柜

液袋：21 吨 /20 尺小柜

吨桶：每桶净重 950KG,19 吨 /20 尺小柜



Dioctyl Adipate (DOA)

Production application

Dioctyl Adipate (DOA) is an excellent cold-resistant plasticizer, it has plasticized high efficiency, low volatility, it is applicable for Polyvinyl Chloride, vinyl chloride copolymer, polystyrene, and synthetic rubber and other resins it can let product bearing excellent softness of cold-resistant, light-resistant, light-fastness, it is Particularly applicable together with DOP, DBP to production cold-resistant farm film, frozen food packing film, electrical wire & cable's clad, leatheroid, plank, outer door water hose etc. When using as paste it has low initial viscosity, good viscosity stability, many countries allow this plasticizer to be used as food packing material such as USA, France, Italy, Japan, Holland etc.

Technical index

Product	Dioctyl Adipate (DOA)
Manufacturing	Shandong Kexing Chemical CO., LTD
Examination project	Enterprise Standard
Appearance	Transparent liquid with no suspended substances
Odor	Slight odor
Ester Content %	Min99.0
Density (20°C) g/cm ³	0.925-0.927
Acid (mgKOH/g) $\leq$	Max0.1
Flash Point, °C $\geq$	Min195
Moisture, % $\leq$	0.1
Chroma platinum-cobalt number $\leq$	Max30

Packing

Drum: 190kg/drum, 15.2mt/20fcl

Flexitank: 21mt/20fcl

IBC Drum: 950kg/ibc, 19.0mt/20fcl



癸二酸二辛酯 (DOS)

产品用途及性能

DOS 为优良的耐寒型增塑剂，增塑效率高，挥发性低，既具有优良的耐寒性，又有较好的耐热性，耐光性和电绝缘性，适用于聚氯乙烯、氯乙烯共聚物、硝酯纤维素、乙基纤维素和合成橡胶等多种树脂。特别适用于制作耐寒电线电缆料、人造革、薄膜、板材、片材等。常与邻苯二甲酸酯类并用。

作为多种合成橡胶的低温用增塑剂，对橡胶的硫化无影响。

质量指标

产品名称	癸二酸二辛酯 (DOS)
生产商	山东科兴化工有限责任公司
检测标准	企业标准
外观	透明液体，无悬浮物
气味	稍有气味
酯含量 % $\geq$	99.0
密度 (20°C) g/cm ³	0.913-0.916
酸值 (mgKOH/g) $\leq$	0.10
闪点, °C $\geq$	205
水分, % $\leq$	0.1
色度 (铂 - 钴) 号 $\leq$	30

包装

桶装：每桶净重 190KG,15.2 吨 /20 尺小柜

液袋：21 吨 /20 尺小柜

吨桶：每桶净重 950KG,19 吨 /20 尺小柜



Dioctyl Sebacate (DOS)

Production application

Dioctyl Sebacate (DOS) is an excellent cold-resistant plasticizer, it has plasticized high efficiency, low volatility, not only bearing cold-resistant but also heat-resistant, light-resistant, and electric insulativity, it is applicable for Polyvinyl Chloride, vinyl chloride copolymer, polystyrene, and synthetic rubber and other resins, it is particularly applicable used in production cold-resistant electrical wire & cable's clad, leatheroid, film, plank, sheet and so on, also often together use with phthalate esters.

It have no effect for vulcanization when working as synthetic rubber's low temper plastizer.

Technical index

Product	Dioctyl Sebacate (DOS)
Manufacturing	Shandong Kexing Chemical CO., LTD
Examination project	Enterprise Standard
Appearance	Transparent liquid with no suspended substances
Ester Content %	Min99.0
Odor	Slight odor
Density (20°C) g/cm ³	0.913-0.916
Acidity (mgKOH/g)	Max0.10
Flash Point, °C	Min205
Moisture, %	Max0.1
Chroma platinum-cobalt number	Max30

Packing

Drum: 190kg/drum, 15.2mt/20fcl

Flexitank: 21mt/20fcl

IBC Drum: 950kg/ibc, 19mt/20fcl



癸二酸二丁酯 (DBS)

产品用途及性能

癸二酸二丁酯无色或淡黄色透明液体，微溶于水，溶于乙醇、乙醚、苯和甲苯。可用于与食品接触的包装材料，耐寒性辅助增塑剂。可与大多数树脂和合成橡胶相容，可作主增塑剂。该品无毒，可用于与食品接触的包装材料，制品手感良好。该品用作许多合成橡胶的增塑剂，可使制品有优良的低温性能和耐油性。该品的主要缺点是挥发损失较大，容易被水、肥皂水和洗涤剂溶液抽出，因此常与邻苯二甲酸酯类增塑剂并用。

质量指标

产品名称	癸二酸二丁酯 (DBS)
生产商	山东科兴化工有限责任公司
检测标准	企业标准
外观	无色或淡黄色透明液体
气味	稍有气味
酯含量, % ≥	99.0
色度, (铂 - 钴) 号 ≤	30
酸值 (mgKOH/g) % ≤	0.10
水分, % ≤	0.10
密度 (20°C),g/cm ³	0.934-0.942

包装

桶装：每桶净重 180KG,14.4 吨 /20 尺小柜

液袋：20 吨 /20 尺小柜

吨桶：每桶净重 900KG,18 吨 /20 尺小柜



Dibutyl Sebacate (DBS)

Production application

DBS is colorless or light yellow transparent liquid, slightly soluble in water, soluble in ethanol, ether, benzene and toluene. Can be used in contact with food packaging materials, cold auxiliary plasticizer. Compatible with most resins and synthetic rubber, can be used as the main plasticizer. The goods are non-toxic and can be used in contact with food packaging materials, products feel good. The product used as a lot of synthetic rubber plasticizer, can make products with excellent low temperature performance and oil resistance. The main drawback of the product is the large loss of volatile, easy to be water, soapy water and detergent solution out, so often with phthalate plasticizer and use.

Technical index

Product	Dibutyl Sebacate (DBS)
Manufacturing	Shandong Kexing Chemical CO.,LTD
Examination project	Enterprise Standard
Appearance	Colorless or light yellow transparent liquid
Odor	Slight odor
Ester content,%	Min99.0
Chroma(Pt-Co)	Max30
Acidity (mgKOH/g) %	Max0.10
Moisture, %	Max0.10
Density(20°C),g/cm ³	0.934-0.942

Packing

Drum:180kg/drum,14.4mt/20fcl

Flexitank:20mt/20fcl

IBC Drum:900kg/ibc,18mt/20fcl



硬脂酸丁酯

产品用途及性能

本品作为 PVC 耐寒辅助增剂广泛用于 PVC 透明软板、电缆料、人造革及压延膜。用量 5-10%。本品作为内润滑剂广泛用于 PVC 片材、板材、管材、管件、异型材及瓶粒料、热收缩膜、扭结膜，用量 1-3%。作为硝酸纤维素、乙基纤维素的增塑剂，用于涂料时，可改善漆膜的光泽性、耐水性和耐划痕性，若将本品溶解于溶剂型增塑剂中再使用，能提高增塑效率。它还可改善聚苯乙烯、氯乙烯—醋酸乙烯共聚物和丁腈橡胶等许多树脂的加工性和脱模性。另外，本品可作为铝箔滚压及金属抽丝润滑剂。作为化妆品助剂，用作膏霜、唇膏类产品的保湿剂。本品为多种树脂加工时的润滑剂和脱模剂，广泛用于聚氯乙烯透明软质和硬质的挤塑、注塑和压延制品以及聚苯乙烯制品。还可用于金属和织物的润滑剂、防水剂及润滑油、鞋油、化妆品的添加剂。也可用作硝酸纤维、乙基纤维的增塑剂和涂料的漆膜改性剂等。

产品质量指标

产品名称	硬脂酸丁酯
生产商	山东科兴化工有限责任公司
检测标准	企业标准
外观	透明，无可见杂质的油状液体
气味	稍有气味
酯含量，% ≥	97.5
色度，（铂 - 钴）号 ≤	30
酸值（mgKOH/g）% ≤	0.2
水分，% ≤	0.1
密度（20℃），g/cm ³	0.85
闪点℃ ≥	190

包装

桶装：每桶净重 175KG,14 吨 /20 尺小柜
液袋：19 吨 /20 尺小柜
吨桶：每桶净重 875KG,17.5 吨 /20 尺小柜



N-Butyl Stearate

Production application

This product as PVC cold auxiliary additives are widely used in PVC transparent soft board, cable materials, leather and rolling film. Dosage 5-10%. This product is widely used as PVC lubricants, sheet metal, pipe, pipe, profile and bottle aggregates, heat shrink film, twisted conjunctiva, the amount of 1-3%. As the nitrocellulose, ethyl cellulose plasticizer, for the paint, can improve the gloss of the film, water resistance and scratch resistance, if the product is dissolved in solvent-based plasticizer and then use, Can improve the plasticizing efficiency. It also improves the processability and releasability of polystyrene, vinyl chloride-vinyl acetate copolymer and nitrile rubber. In addition, this product can be used as aluminum foil rolling and metal spinning lubricant. As a cosmetic additive, used as a cream. Lipstick products moisturizers. This product is a variety of resin processing lubricant and release agent, widely used in PVC transparent soft and hard extrusion, injection and rolling products and polystyrene products. Can also be used for metal and fabric lubricants, waterproofing agents and lubricants, shoe polish, cosmetics additives. Can also be used as nitrocellulose, ethyl woven plasticizer and paint the film modifier.

Technical index

Product	N-Butyl Stearate
Manufacturing	Shandong Kexing Chemical CO.,LTD
Examination project	Enterprise Standard
Appearance	Colorless Transparent liquid
Odor	Slight odor
Color(Pt-Co)	Max30
Content,%	Min99.0
Acidity(mgKOH/g)	Max0.20
Moisture,%	Max0.10
Density g/cm ³	0.85
Flash Point,℃	Min190

Packing

Drum:175kg/drum,14.0mt/20fcl
Flexitank:19mt/20fcl
IBC Drum:875kg/ibc,17.5mt/20fcl

环氧大豆油(ESO)

产品用途及性能

环氧大豆油是一种无毒无味的聚氯乙烯增塑剂，对光、热有良好的稳定作用，其分子量为 1000 左右，大大提高于普通单位增塑剂的分子量。因此它在聚氯乙烯制品中耐挥发，不易迁移，不易失散，这对保持制品光、热稳定性和延长使用寿命是十分有益的。它可以用于所有的软、硬聚氯乙烯制品中，不但会提高制品的价格，而且对制品的加工性能和物理性能均会有相应的提高，环氧大豆油为无毒的 PVC 树脂进入包装领域提供了必要的条件。

质量指标

产品名称	环氧大豆油 (ESO)
生产商	山东科兴化工有限责任公司
检测标准	企业标准
外观：浅黄色油状液体	浅黄色油状液体
气味	稍有气味
色泽（铂 - 钴比色）≤	150#--200#
酯含量 % ≥	99.0
比重（20℃）	0.990 ± 0.0005
环氧值（%）≥	6.0
酸值（毫克氢氧化钾 / 克）≤	0.50
碘值：≤	6.0
闪点℃ ≥	280

包装

桶装：每桶净重 200KG,16 吨 /20 尺小柜

液袋：22 吨 /20 尺小柜

吨桶：每桶净重 1000KG,20 吨 /20 尺小柜



Epoxidized Soybean Oil (ESO)

1. Production application

Epoxidized Soybean Oil (ESO) is a kind of nonpoisonous and tasteless PVC plasticizer,it can keep steady under light and heat,it is molar weight is about 1000,much more than other plasticier ,so it is very useful for the steady,volatility resistance,lower loss,and extend the useful time for the products of PVC,it can be used in all kinds of products of PVC no matter hard or soft,can not only raise the price ,but also increase their physical property machinability, Epoxidized soybean oil is providing conditions for PVC resin entering area of package.

Technical index

Product	Epoxidized Soybean Oil (ESO)
Manufacturing	Shandong Kexing Chemical CO.,LTD
Examination project	Enterprise Standard
Appearance	Light yellow oily liquid
Odor	Slight odor
Color(Pt-Co)	150#-200#
Easter %	Min99.0
Density(20℃ ,)g/cm ³	0.985-0.995
Epoxy Value(%)	Min6.0
Acidity(mgKOH/g)	Max0.5
Lodine Value	Max6.0
Flash Point,℃	Min280

Packing

Drum:200kg/drum,16.0mt/20fcl

Flexitank:22mt/20fcl

IBC Drum:1000kg/ibc,20mt/20fcl



三乙二醇二异辛酸酯 (3G8)

产品用途及性能

本品为溶剂型耐寒环保增塑剂，具有优良的低温性、耐久性、耐油性、耐紫外线照射和抗静电性，且具有粘度低和一定的润滑性。本品是聚乙烯醇缩丁醛（PVB 安全玻璃）和合成橡胶的特效增塑剂，能使之产生低温性能和低挥发性。也可用于涤布、粘结剂及密封材料，是 PVC、PS、乙基纤维素、硝醛纤维素等的增塑剂。用于含蓖麻油的聚乙烯醇缩丁醛布基涂料时，能改善严寒条件下的柔顺性。也用于丁二烯 - 丙烯腈类耐油合成橡胶和聚乙烯乳胶漆的配方中，一般用量比邻苯二甲酸二辛酯或磷酸三甲苯酯都低。可溶于许多有机溶剂，但不溶于矿物油。

产品质量指标

产品名称	三乙二醇二异辛酸酯
检测项目	企业标准
外观	无色透明液体
气味	稍有气味
色度 (Pt-Co)	Max.30
密度 (20°C ,cm ³ /g)	0.969+0.3
粘度 20°C / mpa.s	16.1+0.3
酸值 (mgKOH/g)	Max.0.1
挥发性, (125°C下 2 小时), %	Max.0.4
闪点°C	Min.207

包装

桶装：每桶净重 190KG,15.2 吨 /20 尺小柜

液袋：20 吨 /20 尺小柜

吨桶：每桶净重 900KG,18 吨 /20 尺小柜



Triethylene Glycol Di-2-ethylhexoate (Triglycol di-octate)(3G8)

Production application

This product is solvent-based cold plastcizer with excellent low temperature resistance ,durability,oil resistance,resistance to ultraviolet radiation and static resistance,and has a low viscosity and some lubrication. This product is a polyvinyl butyral (PVB safety glass) and the effects of synthetic rubber plasticizer,to make it produce low-temperature performance and low volatility. It also is used for polyester fabrics,adhesives and sealing materials are PVC,PS, ethyl cellulose,cellulose nitrate and other aldehydes plastciziter .With castor oil for polyvinyl butyral ,burkina paint ,can improve the cold conditions improves the flexibility. Also used for butadiene -acrylonitrile synthetic rubber and polyethylene type oil emulsion formulations, in general ,with the ratio of dioctyl phthalate or tricresyl phosphate are low. Soluble in many organic solvents,but insoluble in mineral oil.

Specification

Product	Triethylene Glycol Di-2-ethylhexoate (3G8)
Manufacturing	Shandong Kexing Chemical CO.,LTD
Examination project	Enterprise Standard
Appearance	No color transparent clear liquid
Color(Pt-Co)	Max.30
Density(20°C ,cm ³ /g)	0.969+0.3
Viscosity,20°C /mpa.s	16.1+0.3
Acid Value (mgKOH/g)	Max.0.1
Volatility,2 hours at 125°C ,%	Max.0.4
Flash Point °C	Min.207

Packing

Drum:190kg/drum,15.2mt/20fcl

Flexitank:20mt/20fcl

IBC Drum:950kg/ibc ,17.1mt/20fcl

对苯二甲酸二辛酯 (DOTP)

产品用途及性能

对苯二甲酸二辛酯 (DOTP) 是聚氯乙烯 (PVC) 塑料用的一种性能优良的主增塑剂。它与常用的邻苯二甲酸二异辛酯 (DOP) 相比, 具有耐热、耐寒、难挥发、抗抽出、柔软性和电绝缘性能好等优点, 在制品中显示出优良的持久性、耐肥皂水性及低温柔软性。因其挥发性低, 使用 DOTP 能完全满足电线电缆耐温等级要求, 可广泛应用于耐 70°C 电缆料 (国际电工委员会 IEC 标准) 及其它各种 PVC 软质制品中。DOTP 除了大量用于电缆料、PVC 的增塑剂外, 也可用于人造革膜的生产。此外, 具有优良的相溶性, 也可用于丙烯腈衍生物, 聚乙烯醇缩丁醛、丁腈橡胶、硝酸纤维素等的增塑剂。还可用于合成橡胶的增塑剂, 涂料添加剂, 精密仪器润滑剂, 润滑剂添加剂, 亦可作为纸张的软化剂。

质量指标

产品名称	对苯二甲酸二辛酯 (DOTP)
生产商	山东科兴化工有限责任公司
检测标准	企业标准
外观	无色透明液体
气味	稍有气味
色度 (铂 - 钴比色) ≤	20
纯度 (CG 法), % ≥	99.68
酸度值 (以 KOH 计) g/cm ³	0.02
水分, % ≤	0.03
闪点 (开口杯法), °C ≥	214
密度 (20°C) (g/cm ³)	0.9824
体积电阻率/(10 ⁹ Ω.m) ≥	2.32

包装

桶装: 每桶净重 200KG, 16 吨 /20 尺小柜
液袋: 22 吨 /20 尺小柜
吨桶: 每桶净重 1000KG, 20 吨 /20 尺小柜



Diocetyl terephthalate (DOTP)

Production application

Diocetyl terephthalate (DOTP) is an excellent main plasticizer for polyvinyl chloride (PVC) plastics. Compared with the commonly used diisooctyl phthalate (DOP), it has the advantages of heat resistance, cold resistance, volatile resistance, extraction resistance, softness and electrical insulation properties, and shows excellent durability, soap resistance and low softness and softness in the product. Because of its low volatility, the use of DOTP can fully meet the requirements of wire and cable temperature rating, and can be widely used in 70 °C cable material (IEC standard of the International Electrotechnical Commission) and other PVC soft products. In addition to a large number of cable materials, PVC plasticizers, DOTP can also be used in the production of artificial leather film. In addition, with excellent compatibility, it can also be used as a plasticizer for acrylonitrile derivatives, polyvinyl butyraldehyde, nitrile rubber, cellulose nitrate, etc. It can also be used as a plasticizer for synthetic rubber, coating additives, precision instrument lubricants, lubricant additives, and as a softener for paper.

Technical index

Product	Diocetyl terephthalate (DOTP)
Manufacturing	Shandong Kexing Chemical CO.,LTD
Examination project	Enterprise Standard
Appearance	No color transparent clear liquid
Odor	Slight odor
Chroma (platinum cobalt ratio) ≤	20
Purity (CG method), % ≥	99.68
Acidity value (calculated as KOH) g/cm ³	0.02
Moisture, % ≤	0.03
Flash point (open cup method), °C ≥	214
Density (20 °C) (g/cm ³)	0.9824
Volume resistivity/(10 ⁹ Ω. m) ≥	2.32

Packing

Drum: 200kg/drum, 16.0mt/20fcl
Flexitank: 22mt/20fcl
IBC Drum: 1000kg/ibc, 20mt/20fcl

邻苯二甲酸二异壬酯 (DINP)

产品用途及性能

邻苯二甲酸二异壬酯简称 DINP 本品为透明油状液体，有轻微气味该产品是性能优良的通用型主增塑剂。本品与 PVC 相容性好，即使大量使用也不会析出；挥发性、迁移性、无毒性均优于 DOP（邻苯二甲酸二辛酯），能赋予制品良好的耐光、耐热、耐老化和电绝缘性能，综合性能优于 DOP。由于本品生产的制品具有耐水耐抽出性能好、毒性低、耐老化、电绝缘性能优良，因此在玩具膜、电线、电缆中得到广泛应用。

质量指标

产品名称	邻苯二甲酸二异壬酯 (DINP)
生产商	山东科兴化工有限责任公司
检测标准	企业标准
外观	无色透明液体
气味	稍有气味
酸值 mgKOH/g ≤	0.039
酯含量 % ≥	99.52
色度，（铂 - 钴）号 ≤	25
密度 (20℃) g/cm ³	0.975
水份，% ≤	0.036
闪点℃ ≥	220

包装

桶装：每桶净重 200KG,16 吨 /20 尺小柜
液袋：22 吨 /20 尺小柜
吨桶：每桶净重 1000KG,20 吨 /20 尺小柜



Diisononyl phthalate (DINP)

Production application

Diisononyl phthalate (DINP) This product is a transparent oily liquid with a slight odor. This product is a versatile main plasticizer with excellent properties. This product and PVC compatibility is good, even if a large number of use will not precipitate; The volatility, migration and non-toxicity are better than DOP (dioctyl phthalate), which can give the product good light resistance, heat resistance, aging resistance and electrical insulation properties, and the comprehensive performance is better than DOP. Because the products produced by this product have good water resistance and extraction resistance, low toxicity, aging resistance and excellent electrical insulation performance, it is widely used in toy film, wire and cable.

Technical index

Product	Diisononyl phthalate (DINP)
Manufacturing	Shandong Kexing Chemical CO.,LTD
Examination project	Enterprise Standard
Appearance	No color transparent clear liquid
Odor	Slight odor
Acid value mgKOH/g ≤	0.039
Ester content% ≥	99.52
Chroma, (Platinum Cobalt) grade ≤	25
Density (20 °C) g/cm ³	0.975
Moisture,% ≤	0.036
Flash point °C ≥	220

Packing

Drum:200kg/drum,16.0mt/20fcl
Flexitank:22mt/20fcl
IBC Drum:1000kg/ibc,20mt/20fcl

邻苯二甲酸二癸酯 (DPHP)

产品用途及性能

邻苯二甲酸二癸酯为无色或黄色液，该品与邻苯二甲酸二辛酯（DOP）相比，挥发性小，仅为 DOP 的四分之一，而且迁移性小，耐抽出性好。可作为乙烯基树脂和纤维素树脂的增塑剂。该品也用作气相色谱固定液，最高使用温度 150℃，溶剂为丙酮、氯仿或甲醇，能选择性地保留分离芳族化合物、不饱和化合物以及各种含氧化合物（醇、醛、酮及酯等）、卤代烃和 G 以下的烃类化合物。

质量指标

产品名称	邻苯二甲酸二癸酯 (DPHP)
生产商	山东科兴化工有限责任公司
检测标准	企业标准
外观	无色透明液体
气味	稍有气味
色度，（铂 - 钴）号 ≤	25
酯含量，% ≥	99.54
密度（20℃），g/cm ³	0.960
闪点℃ ≥	210
酸值，（mgkoh/g） ≤	0.021
体电阻率 10 ¹⁰ Ω.m ≥	1.4
水份，wt% ≤	0.023

包装

桶装：每桶净重 200KG,16 吨 /20 尺小柜
液袋：22 吨 /20 尺小柜
吨桶：每桶净重 1000KG,20 吨 /20 尺小柜



Didecyl phthalate (DPHP)

Production application

Didecyl phthalate is colorless or yellow liquid, which is less volatile than dioctyl phthalate (DOP), only one-fourth of DOP, and has little migration and good extraction resistance. It can be used as a plasticizer for vinyl and cellulose resins. The product is also used as a stationary liquid for gas chromatography, the maximum use temperature is 150 °C , the solvent is acetone, chloroform or methanol, and can selectively retain the separation of aromatic compounds, unsaturated compounds and various oxygen compounds (alcohols, aldehydes, ketones and esters, etc.), halogenated hydrocarbons and hydrocarbons below G. A surname

Technical index

Product	Didecyl phthalate (DPHP)
Manufacturing	Shandong Kexing Chemical CO.,LTD
Examination project	Enterprise Standard
Appearance	No color transparent clear liquid
Odor	Slight odor
Chroma, (Platinum Cobalt) grade ≤	25
Ester content,% ≥	99.54
Density (20 °C), g/cm ³	0.960
Flash point °C ≥	210
Acid value, (mgkoh/g) ≤	0.021
Body resistivity 10 ¹⁰ Ω. m ≥	1.4
Moisture, wt% ≤	0.023

Packing

Drum:200kg/drum,16.0mt/20fcl
Flexitank:22mt/20fcl
IBC Drum:1000kg/ibc,20mt/20fcl

邻苯二甲酸二辛酯 (DOP)

产品用途及性能

邻苯二甲酸二辛酯是重要的通用型主增塑剂，主要用于聚氯乙烯树脂的加工，还可用于化纤树脂、醋酸树脂、ABS 树脂及橡胶等高聚物的加工，也可用于造漆、染料、分散剂等。DOP 不溶于水，溶于乙醇、乙醚、矿物油等大多数有机溶剂。通用级 DOP: 广泛用于塑料、橡胶、油漆及乳化剂等工业中。用其增塑的 PVC 可用于制造人造革、农用薄膜、包装材料、电缆等。

产品质量指标

产品名称	邻苯二甲酸二辛酯 (DOP)
生产商	山东科兴化工有限责任公司
检测标准	企业标准
外观	透明液体，无悬浮物
气味	稍有气味
酯含量，% ≥	99.5
色度，（铂 - 钴）号 ≤	30
酸值（mgKOH/g）% ≤	0.10
水分，% ≤	0.10
密度（20℃），g/cm ³	0.983-0.985
相对密度（20℃ /D）	1.486-1.487
粘度（20℃）mpa.s	77-82
闪点℃ ≥	195

包装

桶装：每桶净重 200KG,16 吨 /20 尺小柜
液袋：22 吨 /20 尺小柜
吨桶：每桶净重 1000KG,20 吨 /20 尺小柜



Dioctyl Phthalate (DOP)

Production application

Dioctyl Phthalate (DOP) is an important general type primary plasticizer mainly used in the processing of PVC resins, and it can be used in the processing of chemical fiber resins, acetic acid resins, ABS resins, rubber, also used in producing paint, dye, dispersant etc. It is insoluble in water, soluble in ethanol, ether, mineral oil and other organic solvents. General grade DOP: widely used in plastic, rubber, paints and emulsifier industries and plasticized PVC can be used in the manufacture of leatheroid, agricultural film, packing materials and cables.

Technical index

Product	Dioctyl Phthalate (DOP)
Manufacturing	Shandong Kexing Chemical CO., LTD
Examination project	Enterprise Standard
Appearance	Transparent liquid, no suspended substances
Odor	Slight odor
Ester content%	Min99.5
Density (20℃) g/cm ³	0.983-0.985
Acidity (mgKOH/g)	Max0.1
Water content, %	Max0.1
Color (Pt-Co)	Max30
Refractive index (20℃ /D)	1.486-1.487
Viscosity (20℃) mpa.s	77-82
Flash Point, °C	Min195

Packing

Drum: 200kg/drum, 16.0mt/20fcl
Flexitank: 22mt/20fcl
IBC Drum: 1000kg/ibc, 20mt/20fcl



邻苯二甲酸二丁酯 (DBP)

产品用途及性能:

该产品主要用作纤维素树脂和聚氯乙烯的主增塑剂，特别适用于硝酸纤维素涂料。具有优良的溶解性、分解性和粘着性，漆膜的柔软性和稳定性亦佳。本品与的相溶性好，可用于着色薄膜、人造革和塑料制品，本品还可作为天然橡胶的增塑剂、软化剂，可提高制品的回弹性。

质量指标

产品名称	邻苯二甲酸二丁酯 (DBP)
生产商	山东科兴化工有限责任公司
检测标准	企业标准
外观	透明液体，无悬浮物
气味	稍有气味
酯含量 % $\geq$	99.5
密度 (20°C) g/cm ³	1.044-1.048
酸值 (mgKOH/g) $\leq$	0.10
闪点, °C $\geq$	160
水分, % $\leq$	0.1
色度 (铂 - 钴) 号 $\leq$	30

包装

桶装：每桶净重 200KG,16 吨 /20 尺小柜
液袋：22 吨 /20 尺小柜
吨桶：每桶净重 1000KG,20 吨 /20 尺小柜



Dibutyl Phthalate (DBP)

Production application

Dibutyl Phthalate (DBP) is a main plasticizer for cellulose resin and PVC, especially for cellulose nitrate coating, it offers good solubility, dispersion and adhesion, capacity, it can work with dye for the dyeing of membrane, manmade leather and plastic product, it also can be used as softener of rubber.

Technical index

Product	Dibutyl Phthalate (DBP)
Manufacturing	Shandong Kexing Chemical CO.,LTD
Examination project	Enterprise Standard
Appearance	Transparent oily liquid no visible impurity
Odor	Slight odor
Ester Content %	Min99.5
Density (20°C) g/cm ³	1.044-1.048
Acidity mgKOH/g	Max0.10
Flash Point, °C	Min160
Moisture, %	Max0.10
Chroma platinum-cobalt number	Max30

Packing

Drum:200kg/drum,16.0mt/20fcl
Flexitank:22mt/20fcl
IBC Drum:1000kg/ibc,20mt/20fcl

