

## WIN-WIN COOPERATION AND INNOVATION



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Ningbo Rongze Technology  
Development Co., Ltd.

## COMPANY & PRODUCTS INTRODUCTION

**宁波融泽科技发展有限公司**  
Ningbo Rongze Technology Development Co., Ltd.





## Company Profile

Ningbo Rongze Technology Development Co., Ltd. located in Ningbo city, Zhejiang Province, is specialized in producing and selling phosphorus flame retardant and plasticizer, PVC Stabilizer and surfactant. Our products are widely used in various PVC products, PU foam, spray poly-urea waterproof materials, thermal isolation materials, adhesive, coatings and rubbers etc. We established OEM plants in several great chemical provinces in China. The excellent factories display and production lines make us to match different customers' tailored demands. All factories strictly comply with environmental, safety and labor regulations which secure our sustainable supply. Our professional management team and technicians who have more than 20 years experiences in field of chemicals can provide better product solutions. Our own logistics company makes us offer better solution of logistic service and save cost for customers.





## Tri-Isobutyl Phosphate (TIBP)

Molecular Formula:  $C_{12}H_{27}O_4P$   
CAS NO.: 126-71-6

### Specification:

Items	Index
Appearance	Colorless transparent liquid
Refractive Index (20°C)	1.4190 – 1.4200
Purity	≥99.0%
Color	≤20 APHA
Acid Value	≤0.1 mgKOH/g
Moisture	≤0.1%
Density (20°C)	0.960 – 0.970

### Application:

TIBP is mainly used for deforming agent, textile additives, penetration agent, dye additives, etc.

### Packing:

1000kg/IBC drum or 200kg/galvanized iron drum



## Tris (2-Butoxyethyl) Phosphate – (TBEP)

Molecular Formula:  $C_{18}H_{39}O_7P$   
CAS NO.: 78-51-3

### Specification:

Items	Index
Appearance	Colorless to yellowish transparent liquid
Odor	Slightly
Refractive Index (25°C)	1.430 – 1.440
Color	≤60 APHA
Acid Value	≤0.1 mgKOH/g
Moisture	≤0.2%
Density (25°C)	1.010 g/cm <sup>3</sup> – 1.022 g/cm <sup>3</sup>

### Application:

TBEP used as a plasticizer for resins and elastomers, in floor finishes and waxes, as a flame retardant, as a plasticizer for rubber stoppers in blood specimen containers, and as a fire-resistant and light-stable plasticizer for products. TBEP can be used as solvent for resins, a viscosity modifier in plastisols, and an antifoam agent for synthetic rubber, plastics, and lacquers.

### Packing:

1000kg/IBC drum or 200kg/iron drum





## Triethyl Phosphate (TEP)

Molecular Formula:  $C_6H_{15}O_4P$   
CAS NO.: 78-40-0

### Specification:

Items	Index
Appearance	Colorless transparent liquid
Refractive Index (20°C)	1.405 – 1.407
Purity	≥99.0%
Color	≤20 APHA
Acid Value	≤0.05 mgKOH/g
Moisture	≤0.2%
Density (20°C)	1.068 g/cm <sup>3</sup> – 1.073 g/cm <sup>3</sup>
Phosphorus Content	17 % ± 0.1 %
Chlorine Content	≤200 ppm

### Application:

TEP is used as a flame retardant, strength agent of rubber and plastic, the raw material of pesticides, stabilizing agent of resin.

### Packing:

1000kg/IBC drum or 220kg/steel drum



## Isopropylated Triphenyl Phosphate (R50) – IPPP

Molecular Formula:  $C_{27}H_{33}O_7P$   
CAS NO.: 68937-41-7

### Specification:

Items	Index
Appearance	Clear oil liquid
Refractive Index (25°C)	1.550 – 1.560
Color	≤50 APHA
Acid Value	≤0.1 mgKOH/g
Moisture	≤0.1%
Density (20°C)	1.168 g/cm <sup>3</sup> – 1.180 g/cm <sup>3</sup>
Free Phenol Content	≤0.1%
Heating Loss	≤0.2%
Viscosity (25°C)	50 mPa.S – 62 mPa.S
Flash Point	≥220°C

### Application:

IPPP is mainly used in rubber, resin and plastic as flame retardant plasticizer, widely used in all kinds of soft PVC material, flexible Polyurethane, Phenolic resin, fiber resin, synthetic rubber. IPPP has also been used as flame retardant additives in the production and processing of engineering resins, such as modified PPO, Polycarbonate, Polycarbonate composite materials, etc.

### Packing:

1200kg/IBC drum  
200kg/ galvanized iron drum





## Tris (2-chloroisopropyl) Phosphate – TCPP-LO

Molecular Formula:  $C_9H_{18}Cl_3O_4P$   
CAS NO.:13674-84-5

### Specification:

Items	Index
Appearance	Colorless or pale yellow transparent liquid
Refractive Index (20°C)	1.460 – 1.464
Color	≤30 APHA
Acid Value	≤0.07 mgKOH/g
Moisture	≤0.07 %
Density (20°C)	1.288 g/cm <sup>3</sup> – 1.298 g/cm <sup>3</sup>
Phosphorus Content	9.4 % ± 0.4 %
Chlorine Content	32.0% – 32.4 %
TDCP	≤0.01 %
Aldehyde Content	<10 ppm

### Application:

TCPP-LO is a low-cost Chlorine and Phosphorous based flame retardant. It has the best hydrolysis stability among currently available halogenated organic Phosphates. Can not dissolve in water, dissolve in most organic solvent, and have good compatibility with resins. Applying as flame retardant in the production of acetate fiber, Polyvinyl-chloride, PU foams, EVA, Phenolics materials. Except the flame retarding, it can also promote the moisture resisting, low temperature resisting, the capability of antistatic and the softness of the materials.

### Packing:

1250kg/IBC drum or 250kg/steel drum

## Tris (1,3-Dichloro-2-Propyl) Phosphate – TDCP / TDCP-LS

Molecular Formula:  $C_9H_{15}Cl_2O_4P$   
CAS NO.:13674-87-8

### Specification:

Items	Index
Appearance	Colorless or slightly yellowish transparent liquid
Odor	Slightly
Refractive Index (25°C)	1.468 – 1.528
Color	≤100 APHA
Acid Value	≤0.1 mgKOH/g
Moisture	≤0.1%
Density (20°C)	1.507 g/cm <sup>3</sup> - 1.517 g/cm <sup>3</sup>
Phosphorus Content	7.0 % ± 0.5 %
Chlorine Content	49 % ± 0.5 %
Viscosity (cps 25°C)	1300 – 1800

### Application:

TDCP/TDCP-LS is a low scorching chlorinated Phosphate highly efficient flame retardant, low volatility, high thermal stability, water, alkali stable miscible with most organic matter, good processing performance, with plasticized, moisture-proof, anti-static, anti-pull, anti-compression performance. TDCE/TDCP-LS is widely used in unsaturated Polyester, Polyurethane foam, Epoxy resin, Phenol resin, rubber, soft Polyvinyl Chloride, synthetic fibers, and other plastic & paint at high temperature Pyrolysis which can be used as an emulsifier and explosion-proof agent. The product contains anti-oxidants that reduce scorching in PU foam manufacturing.

### Packing:

1250kg/IBC drum or 250kg/steel drum



## Dibenzoyl Methane (DBM)

Molecular Formula:  $C_{15}H_{12}O_2$   
CAS NO.:120-46-7

### Specification:

Items	Index
Appearance	White to light yellow crystal or powder
Purity	$\geq 99.0\%$
Melting Point	$\geq 76.0^{\circ}C$
Loss on drying	$\leq 0.5\%$
Ash Content	$\leq 0.1\%$

### Application:

DBM is an important  $\beta$ -diketone structured Thermoplastic light stabilizer, heat stabilizer, nontoxic, odorless, widely used in Polyvinyl Chloride (PVC) plastics and Acrylonitrilebutadiene-Styrene (ABS) resins. As a new auxiliary stabilizer for plastic processed products.

### Packing:

20kg or 25kg/carton  
20kg or 25kg/kraft paper bag



## Stearoyl Benzoyl Methane (SBM 50/55)

Molecular Formula:  $C_{26}H_{42}O_2$   
CAS NO.:58446-52-9

### Specification:

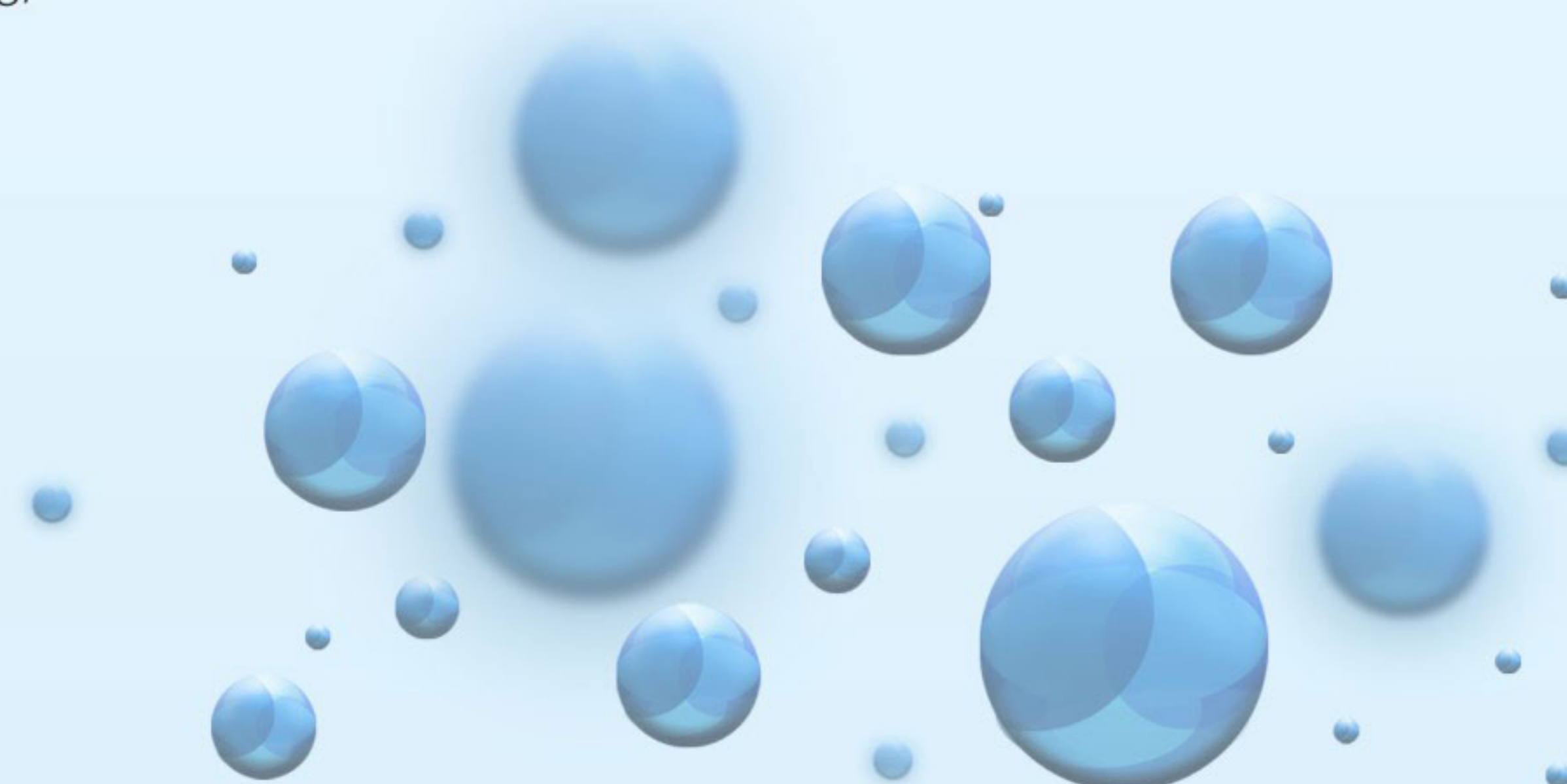
Items	SBM-50	SBM-55
Appearance	Light white color	Light white color
Content, %	$\geq 98.0\%$	$\geq 70.0\%$
Melting, $^{\circ}C$	$\geq 56$	$\geq 53$
Volatiles Content, %	$\leq 0.3$	$\leq 0.2$
Ash Content, %	$\leq 0.3$	$\leq 0.2$

### Application:

SBM is a kind of good PVC non-toxic auxiliary heat stabilizer that can be used with Calcium/Zinc, Barium /Zinc and rare earth elements and also increases efficiency of Ba/Zn-Ca/Zn and other mineral stabilizations. This product is easily soluble in Ether, Trichloromethane, O-Xylene, Toluene and Aqueous Sodium Hydroxide, slightly soluble in Ethanol, extremely slightly soluble in water.

### Packing:

20kg/Carton





## 1,3,5-Tris (2-hydroxyethyl) Cyanuric Acid (THEIC)

Molecular Formula:  $C_9H_{15}N_3O_6$   
CAS NO.:839-90-7

### Specification:

Items	Index
Appearance	White crystalline powder or granule
Melting Point	133.5 - 137°C
Hydroxyl Value	640±10 mgKOH/g
Acid Value	≤1.0 mgKOH/g
PH Value	6.5-7.3
Turbidity	≤1.0 NTU
Loss on drying	≤0.3 %

### Application:

used in producing PVC stabilizer & heat resistance enameled wire.

### Packing:

25kg/bag, 500kg/big bag, or 800kg/big bag



## Hydrogenated Styrene-Butadiene Block Copolymer/ Thermoplastic Elastomer / Thermoplastic Rubber(SEBS)

Molecular Weight:158.24  
CAS NO.:66070-58-4

### Specification:

Items	Index
Appearance	White powder
SM/BD Ratio	/
Specific Gravity, g/cc	/
Volatile Matter	≤0.5%
Ash Content	≤0.5%
Toluene Solution Viscosity	1500 – 2500 mPa.S
Hardness	≥65 Shore A

### Application:

SEBS is a Thermoplastic Elastomer product made from SBS Hydrogenation, with similar structure as SBS. SEBS is widely used in shoe material, toys, adult erotica products, medical equipments, coating material, wire and cable, plastic modification, foam material, adhesive coated products and so on. SEBS items have high strength, weather resistance, good compatibility, good oil locking, good ozone resistance, easy to process, recyclable and green environmental protection.

### Packing:

13kg/bag or 15kg/bag



## Sodium Lauryl Ether Sulfate 70% (SLES 70%)

Molecular Formula:  $C_{14}H_{29}O_5NaS$   
CAS NO.: 68891-38-3

### Specification:

Items	Index
Appearance	White to light yellow gel cream
Odor	Characteristic odor
Color	$\leq 30$ Hazen
Active matter	$70\% \pm 2\%$
Sodium Sulfate	$\leq 1.5\%$
Unsulfated Matters	$\leq 3.0\%$
1,4 Dioxane Content	$\leq 70\%$
PH Value (25°C)	6.5 – 9.5

### Application:

SLES is an anionic surfactant that performs excellently. It performs good decontamination, emulsifying, wetting, densifying, and foaming, with good solvency, broad compatibility, strong tolerance to hard water, high biodegradation, and low irritation to skin and eyes. It is widely used in liquid detergents, such as dishwashing, shampoo, bubble bath handwashing, etc. SLES can also be used in washing powder and detergent for heavy dirty. In textile, printing and dyeing, oil, and leather industries, it can be used as a lubricant, dyeing agent, cleaner, foaming agent, and degreasing agent.



### Packing:

1000-1100kg/IBC or 170kg/drum or Flexibag

## Diallyl Dimethyl Ammonium Chloride 65% (DADMAC 65%)

Molecular Formula:  $C_8H_{16}ClN$   
CAS NO.: 7398-69-8

### Specification:

Items	Index
Appearance	Colorless to light yellow transparent liquid
Color	$\leq 50$ APHA
Content	$\geq 65\%$
Sodium Chloride	$\leq 2\%$
PH Value	3-7
Ionicity	Cationic

### Application:

DADMAC as a kind of cationic monomer, it forms the macromolecular polymer by various polymerization reaction. Its polymer can be used as superior formaldehyde-free fixing agent and antistatic agent in the dyeing and finishing auxiliaries for textile and the AKD curing accelerator and paper conductive agent in paper making auxiliaries. It also can be used in the decoloring, flocculation and purification of water treatment. It can be used as the shampoo combing agent, wetting agent and antistatic agent in cosmetic chemicals and also as the flocculating agent and clay stabilizer in oil field chemical.

### Packing:

1000kg/IBC drum or 200kg/drum





## Polyquaternium PQ (PQ 60)

Molecular Formula:  $(C_5H_{12}NOCl)_n$   
CAS NO.:25988-97-0

### Specification:

Items	Index
Appearance	Colorless to light yellow transparent viscous liquid
Solid Content	59% - 61%
Specific gravity	1.100 – 1.200
PH Value	6.0 – 8.0

### Application:

PQ 60 is the special surfactant, no foam, no irritating odor, safe to use, and has sterilization and flocculation functions. PQ 60 widely used in acidic, alkaline and high-hard water environments. PQ 60 can be used as a fungicide for swimming pools, landscape water, and industrial circulating water.

### Packing:

1000kg/IBC drum or 220kg/drum



## Alkyl Polyglucoside (APG)

Molecular Formula:  $C_{16}H_{32}O_6$   
CAS NO.:68515-73-1

### Specification:

#### RongzeAPG 0810

		RongzeAPG 0810	RongzeAPG 0810 H60	RongzeAPG 0810 H65	RongzeAPG 0810 H70	RongzeAPG 0810 H70D
INCI		Caprylyl / Capryl Glucoside				
CAS NO.		68515-73-1				
Appearance(25°C)		Pale yellow liquid	Pale yellow liquid	Pale yellow liquid	Brown liquid	D-Brown liquid
Odor		No odor	No odor	No odor	No odor	No odor
Solid Content	%	50.0-50.2	58.0-62.0	62.0-65.0	68.0-72.0	68.0-72.0
PH Value (10% aq.)	-	11.5-12.5	11.5-12.5	11.5-12.5		
Free Fatty Alcohol	%	<1.0	<1.0	<1.0	<5.0	<5.0
Sulfated Ash	%	<3.0	<3.0	<3.0	<3.0	<3.0
Viscosity(20°C)	mPa · s	200-600	500-2500	500-1500	3500-5000	3500-5000
Color	Hazen	<50.0	<50.0	<50.0	<5.0	<5.0

### Application:

RongzeAPG 0810 is a very mild nonionic surfactant made from renewable vegetal raw materials, which is low toxic, no irritating and readily biodegradable. It's excellent performance including detergency, wetting, dispersing and compatibility, especially foaming property. It also exhibits excellent alkaline and electrolyte resistance and can solubilize other ingredients. It can be widely used in personal care and household cleaners: day cream, night cream, body cream & lotion, shampoo and hand cream, etc.The solid content and pH could be determined in accordance with customers' needs.

### Packing:

1100kg/IBC drum or 220kg/ drum



# Technological Innovation

## Best Solution



We are committed to providing customers with the best suitable products and innovative solution. Looking forward to cooperate together with the mission of achieving mutual benefit and bright future!



## MAIN PRODUCTS

**Phosphates Flame Retardant:**  
TIBP, TBEP, TEP, IPPP, TCPP-LO, TDCP / TDCP-LS etc.

**Surfactant:**  
SLES 70%, DADMAC 65%, Polyquaternium PQ 60, APG etc.

**PVC Stabilizer:**  
DBM, SBM 50, SBM 55, THEIC, SEBS etc.



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