

CUSTOMIZED
SOLUTIONS

Schill+Seilacher
struktol®



**POLYFIX ZRC SERIES OFFERS AN EFFECTIVE AND
READY-TO-USE SOLUTION**

POLYFIX ZRC SERIES

**FIGHTING AGAINST MALODOURS IS A CHALLENGE FOR EVERYBODY
INVOLVED IN THE DEVELOPMENT OF ODOUR CONTROL PRODUCTS**

POLYFIX ZRC concentrates are based on zinc ricinoleate, which is capable of binding odour-forming nucleophilic molecules. The molecules will be chemically fixed and cannot be released back into the atmosphere even when heated.

- **Cold processable**
- **Capable of building stable complexes with odour molecules**
- **Compatible with most fragrances**
- **Compatible with non-ionic and anionic surfactant systems**
- **Used at typical treatment levels of 1 – 5 %**

Product	INCI / Ingredient	Dry Matter (%)	PO / PKO*	pH	Certification	Application Area	Recommended pH Range	Aqueous Formulation	Hydrophobic Formulations	Cationic Additives	Max Alcohol Content (%)
Polyfix ZRC 25 GP	Aqua, Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	32	4 / 0	9.0	COSMOS	Cosmetics, Household, I&I, Pet Care	7 - 10	XX	X	X	40
Polyfix ZRC 25 MB		32	4 / 0	9.0	COSMOS, RSPO - MB**	Cosmetics, Household, I&I, Pet Care	7 - 10	XX	X	X	40
Polyfix ZRC 25 EC	Aqua, Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propylene Glycol	32	0 / 0	9.0	COSMOS	Cosmetics, Household, I&I, Pet Care	7 - 10	XX	X	X	40
Polyfix ZRC 50 TB	Zinc Ricinoleate, Laureth-3, Tetrahydroxypropyl Ethylenediamine, Propylene Glycol	93	0 / 20	9.0		Cosmetics, Household, I&I, Pet Care	4.5 - 10	X	XX	XX	80
Polyfix ZRC 50 MB		93	0 / 20	9.0	RSPO - MB**	Cosmetics, Household, I&I, Pet Care	4.5 - 10	X	XX	XX	80
Polyfix ZRC 30 PAC	Propylene Glycol, Zinc Ricinoleate, Aqua, Arginine, Citric Acid	46	0 / 0	8.5	COSMOS	Cosmetics, Household, I&I, Pet Care	7.5 - 11	X	X	X	30
Polyfix ZRC 70 TDL	Zinc Diricinoleate, Nonionic Components, Solvent	95	0 / 0	7.5		Industrial, Household, Pet Care	5 - 10	X	XX	X	100
Polyfix ZRC 35 AH	Water, Zinc Diricinoleate, Amino Acid, Chelating Agent	49	0 / 0	10.0		Industrial, Household, Pet Care	9 - 11	X	X	X	20
Polyfix ZRC 30 MT	Water, Zinc Diricinoleate, Chelating Agent, Alcohol Ethoxylated	40	0 / 0	10.0		Industrial, Household, Pet Care	7- 11	XX	X	X	50

* PO Palm oil / PKO Palm kernel oil (%)

** RSPO Certificate Number CU-RSPO SCC-846664

XX Well suitable

X Stabilisation is needed (surfactants, alcohol, chelating agent)

POLYFIX ZRC CONCENTRATES ELIMINATE MALODOURS CAUSED BY AMINES, MERCAPTANES, HYDROGEN SULFIDE, ORGANIC ACIDS, AMMONIA, THIO ESTERS. MOST FRAGRANCES WILL NOT BE AFFECTED.

COSMETICS

- Deodorants, roll-ons, sprays, sticks
- Foot creams, foot care
- Hair depilatory creams
- Permanent hair waves, hair-straightening
- Hand sanitizers
- Baby bubble bath
- Wet wipes

FURTHER APPLICATIONS

- Cigarette smoke absorption
- Car care products
- Industrial cleaners

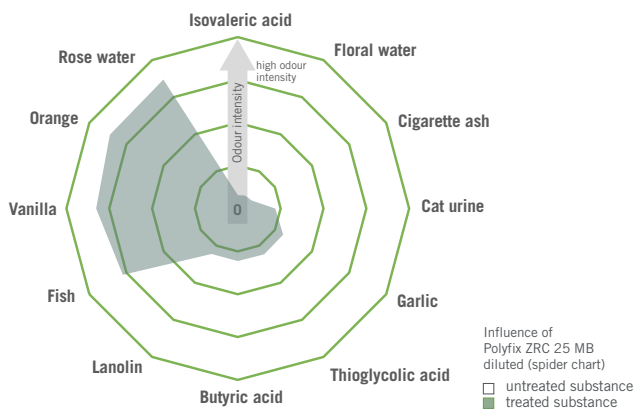
PETCARE

- Cat litter
- Shampoos

HOMECARE

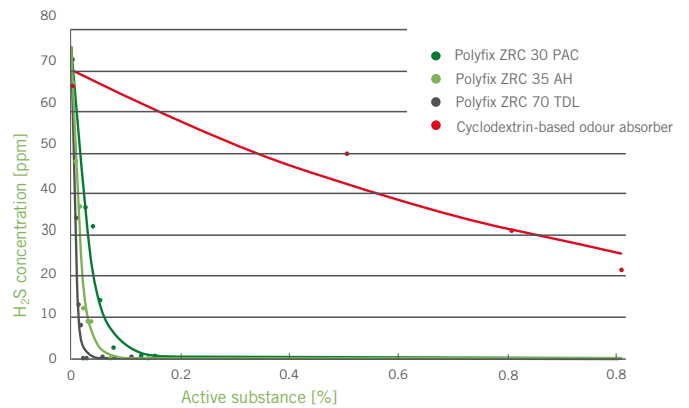
- Household products
- Sanitary products
- Air fresheners
- Shoe sprays

INFLUENCE ON ODOURS



Statistical survey confirms excellent compatibility of Polyfix ZRC 25 MB by fighting against unpleasant odours and its compatibility with fragrances.

HYDROGEN SULFIDE ABSORPTION



Polyfix ZRC, activated zinc ricinoleate complexes are significantly more effective than cyclodextrin-based odour absorbers, as a performance test on the absorption of hydrogen sulfide demonstrates.

FLOOR CLEANER „ODOUR ABSORBING“

Part	INCI / Ingredient	% w/w
A	Aqua	92.50
	Propylene Glycol	0.50
	GLDA, 47%	2.00
B	PERLASTAN C-30 (Schill + Seilacher GmbH) Aqua, Sodium Cocoyl Sarcosinate, 30%	3.00
	POLYFIX ZRC 30 MT (Schill + Seilacher GmbH) Water, Zinc Diricinoleate, Chelating Agent, Alcohol Ethoxylated	2.00
C	Citric Acid	qs to pH
D	Preservatives, Fragrances etc.	qs

MANUFACTURING PROCEDURE

- Mix Part **A** in listed order
- Add Part **B** to Part **A** and mix until formulation is clear
- Adjust pH-value with Part **C**
- Add Part **D** while stirring

PROPERTY

- Appearance: colourless, clear liquid
- pH-value: 6.5 - 7.5

DEODORISING SOAP BAR

Part	INCI / Ingredient	% w/w
A	Behenyl Alcohol	17.50
	Sorbitan Olivat	6.00
	Butyrospermum Parkii (Shea) Butter	17.50
	Macadamia Ternifolia Seed Oil	3.00
	RHEO2GREEN3 MB (Schill + Seilacher GmbH) Aqua, Sodium Lauroamphoacetate, Disodium Cocoyl Glutamate, 42%	8.00
	Glyceryl Caprate	0.50
B	Silica	10.00
	Bambusa Arundinacea	9.00
	Sodium Bicarbonate	5.00
C	Zinc Oxide	6.00
	Helianthus Annuus Seed Oil	6.50
	Propylene Glycol	6.00
	POLYFIX ZRC 25 MB (Schill + Seilacher GmbH) Aqua, Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	5.00
D	Preservatives, Fragrances etc.	qs

MANUFACTURING PROCEDURE

- Heat Part **A** up to 80°C
- Maintain temperature and add Part **B** to Part **A** while stirring
- Mix until formulation appears homogeneous
- Add Part **C** and Part **D** in listed order while stirring
- If the formulation is homogeneous, pour the mass into a mould and cool down

PROPERTY

- Appearance: solid bar

For more information please contact:

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