

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	Aqua, Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	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 30 PAC	Propylene Glycol, Zinc Ricinoleate, Water, Arginine, Citric Acid	46	0 / 0	8.5		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 (X)
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 SERIES



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 cremes, foot care
- Hair depilatory cremes
- Permanent hair waves, hair-straightening
- Hand sanitizers
- Baby bubble bath
- Wet wipes

FURTHER APPLICATIONS

- Cigarette smoke absorption
- Car care products
- Industrial cleaners

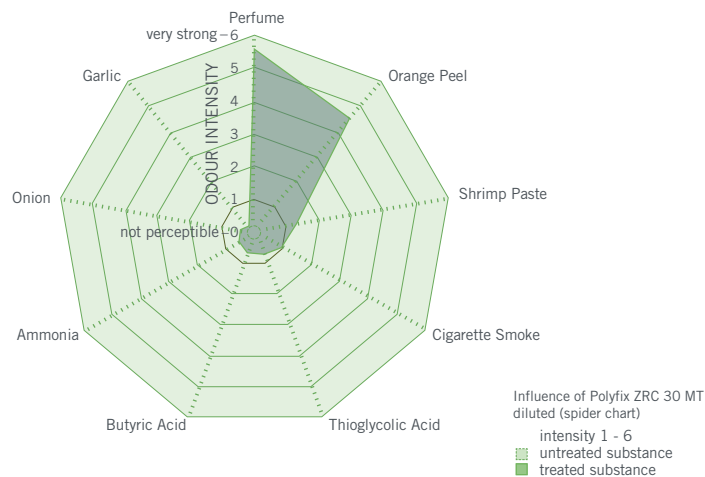
HOME CARE

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

PET CARE

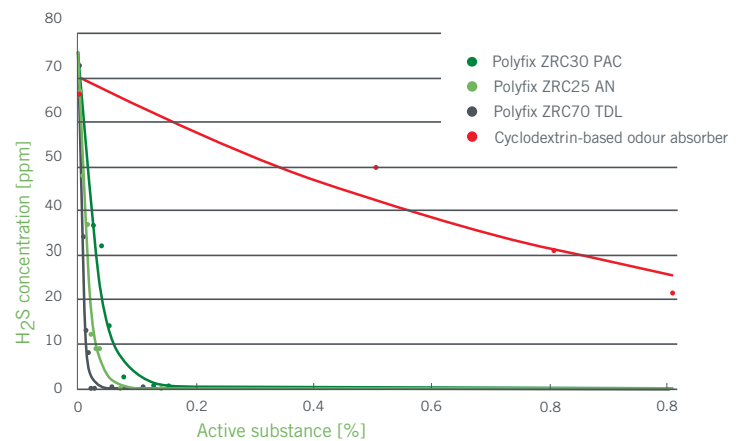
- Cat litter
- Shampoos

INFLUENCE ON ODOURS



Statistical survey confirms excellent compatibility of Polyfix ZRC 30 MT by fighting against unpleasant odours and its compatibility with fragrances.

HYDROGEN SULFIDE ABSORPTION



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



DEO ROLL-ON

Part	INCI / Ingredient	% W/W
A	Aqua	74
	Glycerin	5
	Triethyl Citrate	5
	POLYFIX ZRC 30 PAC Propylene Glycol, Zinc Ricinoleate, Aqua, Arginine, Citric Acid 30%	4
B	Xanthan Gum	0.5
C	Helianthus Annuus Seed Oil	1.0
	PAIR2PHASE1 MB Potassium Cetyl Phosphate, Behenyl Alcohol	0.5
D	Alcohol	10.0
E	Lactic Acid	qs to pH
F	Preservatives, Fragrances etc.	qs

PROPERTY

- Appearance: off-white emulsion
- pH-value: 5.3 - 5.5

MANUFACTURING PROCEDURE

- Heat Part **A** up to 70-75°C
- Add Part **B** while stirring
- Heat Part **C** up to 70-75°C
- Add Part **C** while stirring
- Cool down to room temperature while stirring
- Add Part **D**
- Adjust pH-value with Part **E** and mix until formulation appears homogeneous
- Add Part **F**

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