



Weichmacher

Plasticizers

Verarbeitungshilfsmittel

Processing Aids

Aktivatoren

Activators

Silanpräparationen

Coupling Agents

Feuchtigkeitsabsorber

Desiccants

Trennmittel

Antitacks

Hilfsstoffe

Auxiliaries

Öle und Additive

Lubricants + Additives

Wärmeträgeröle

Heat Transfer Fluids

1. Plasticizers

Product Name	Chemical Characteristics ¹⁾	Appearance ¹⁾	Properties ¹⁾		Range of Application ²⁾
Mediaplast PM	polyalkylbenzene	yellowish liquid	Density (g/cm ³) (15 °C) Color (ASTM D 1500) V ₄₀ (mm ² /s) Flash Point (°C) Setting Point (°C)	0.875 max. 1.5 approx. 23 > 180 < -50	light, non-staining plasticizer with excellent low temperature properties for NR, SBR, CR, EPDM, BR
Mediaplast 650 A	polyalkylbenzene	brown liquid	Density (g/cm ³) (15 °C) Color (ASTM D 1500) V ₄₀ (mm ² /s) Flash Point (°C) Setting Point (°C)	0.895 4–8 approx. 73 > 190 approx. -40	plasticizer with excellent low temperature properties and reduced volatility compared to Mediaplast PM for NR, SBR, EPDM, BR
Mediaplast PS-1	polyalkylbenzene	yellow liquid	Density (g/cm ³) (15 °C) Color (ASTM D 1500) V ₅₀ (mm ² /s) Flash Point (°C) Setting Point (°C)	0.891 max. 2 approx. 300 approx. 190 approx. -24	synthetic aromatic plasticizer based on polyalkylbenzene. Mainly recommended for elastomers with low to medium polarity, e. g. NR, IIR, BR, SBR, EP(D)M, but also CR, CM/CSM, EVA and PNR
Mediaplast PX-2	partly synthetic hydrocarbons, paraffinic	bright, transparent liquid	Density (g/cm ³) (15 °C) Color (HAZEN) V ₅₀ (mm ² /s) Flash Point (°C) Setting Point (°C)	0.879 < 120 approx. 235 approx. 235 approx. -10	semi-synthetic plasticizer based on long-chain hydrocarbons with paraffinic character for the use in elastomers with low polarity, e. g. NR, IIR, BR, SBR and EPDM; non-staining with excellent UV resistance.
Mediaplast NB-4	adipic acid ester	bright, transparent liquid	Density (g/cm ³) (15 °C) Color (HAZEN) V ₄₀ (mm ² /s) Flash Point (°C) Setting Point (°C)	0.960 max. 100 approx. 15 > 200 approx. -60	special ester plasticizer for use in NBR, NBR/PVC, HNBR, CR, ECO, ACM; plasticizer with high temperature resistance and excellent low temperature properties
Mediaplast NB-7	special diisononyl dicarboxylic acid ester	bright, transparent liquid	Density (g/cm ³) (15 °C) Color (HAZEN) V ₄₀ (mm ² /s) Flash Point (°C) Setting Point (°C)	0.952 max. 40 approx. 20 > 200 approx. -50	special diisononyl dicarboxylic acid ester which can replace existing phthalate plasticizers in compounds based on polar rubber like NBR, HNBR, CR, ACM, VAMAC, etc.
Mediaplast TR	dibenzyltoluene	bright, clear liquid	Density (g/cm ³) (20 °C) Color (ASTM D 1500) V ₄₀ (mm ² /s) Flash Point (°C) Setting Point (°C)	1.045 max. 1.5 approx. 17 > 200 approx. -30	light, non-staining, high aromatic synthetic plasticizer with low volatility for strong polar elastomers; also suitable for polysulfide polymers
Mediaplast .../P	dry liquid of Mediaplast-plasticizers with 72.5 % active agent	powder			all Kettlitz-plasticizers are also available as dry liquid, if required (minimum order quantity 500 kg)

2. Processing Aids

Product Name	Chemical Characteristics ¹⁾	Appearance ¹⁾	Properties ¹⁾		Dosage	Range of Application ²⁾
Dispergator FL	combination of metal soaps, fatty acids and higher alcohols	white granules	Density (g/cm ³) Ash Content (%)	approx. 1.13 ³⁾ 24.5	2–3 phr	universal processing aid, excellently compatible with all polymers
Dispergator FL plus	combination of metal soaps, fatty acids and higher alcohols	white granules	Density (g/cm ³) Ash Content (%)	approx. 0.98 ³⁾ 6.0	2–3 phr	like Dispergator FL, however with higher active agent concentration
Dispergator FD	combination of zinc soaps and hydrocarbons	white granules	Density (g/cm ³) Ash Content (%)	approx. 0.99 ³⁾ 7.8	2–3 phr	processing aid for compounds with alimentary contact
Dispergator DS	water-in-oil-emulsion of fatty acids, esters and higher alcohols	white granules	Density (g/cm ³) Ash Content (%)	approx. 1.08 ³⁾ 30.0	3–5 phr	processing aid for EPDM, IIR, XIIR and NBR

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2) For further information please study our detailed brochures (fax-order-form overleaf)

3) mathematically

Dispergator KB	water-in-oil-emulsion of fatty acids, higher alcohols and hydrocarbons	white granules	Density (g/cm ³) Ash Content (%)	approx. 1.07 ³⁾ 29.0	2–4 phr	application like Dispergator DS, however with lower water content
Dispergator OX	combination of zinc salts and hydrocarbons	yellowish granules	Density (g/cm ³) Ash Content (%)	approx. 1.06 ³⁾ 28.5	3–5 phr	processing aid for natural and synthetic elastomers, especially recommended for NR and IR
Dispergator SI/GR	processing aid containing silicone combinations	white granules	Density (g/cm ³) Ash Content (%)	approx. 1.15 ³⁾ 56.0	3–5 phr	reduces the stickiness of EPDM and EVA compounds; especially for compounds which contain aluminum hydroxide as filler; decreases mold fouling on extruder heads
Haftolat	EPM solution	amber, transparent, high viscous, sticky substance	Density (20 °C) V ₅₀ (mPas)	approx. 0.89 ³⁾ 8 000	1–3 phr	processing aid based on EPM; for the use in EPDM, IIR, XIIR, NBR and CR; increases the scorch stability of CR compounds
Haftolat/P	dry liquid of 75 % Haftolat	amber, sticky powder	Density (g/cm ³) Ash Content (%)	approx. 1.08 ³⁾ 27.0	3–5 phr	like Haftolat; dry liquid, easy to handle
Mediaplast WH	aromatic synthetic resin	yellow, medium viscid liquid	Density (g/cm ³) (15 °C) V ₅₀ (mPas)	0.973 1 300	3–5 phr	improves the tackiness of compounds based on EPDM, SBR and NBR
Mediaplast WH/P	dry liquid of 75 % Mediaplast WH	yellow powder	Density (g/cm ³) Ash Content (%)	approx. 1.16 ³⁾ 26.0	3–8 phr	like Mediaplast WH; dry liquid, easy to handle
Mediaplast 40	mixture of resins and resin-plasticizers	brownish granules	Density (g/cm ³) Ash Content (%)	approx. 1.13 ³⁾ 30.5	3–5 phr	homogenizing agent for polymer blends; especially SBR, NR and BR blends
Mediaplast 50	mixture of resins and resin-plasticizers	brownish granules	Density (g/cm ³) Ash Content (%)	approx. 1.10 ³⁾ 23.5	2–5 phr	homogenizing agent based on Mediaplast 40 with an increased masticating effect on natural rubber
Mediaplast 60	combination of metal soaps, aromatic disulfide and catalysts	green granules	Density (g/cm ³) Ash Content (%)	approx. 1.3 ³⁾ 15.0	0.3–0.5 phr	chemical peptizer for NR and IR
Mediaplast AT	high boiling alcohols	beige pastilles	Density (g/cm ³) Ash Content (%)	approx. 0.84 ³⁾ < 1	0.5–2 phr	reduces the stickiness of compounds based on polar rubber; especially recommended for ACM and AEM
Mediaplast EV/F	carboxylic acid amide on aluminum hydroxide as carrier	white granules	Density (g/cm ³) Ash Content (%)	approx. 1.47 ³⁾ 40.0	1–3 phr	reduces the stickiness of compounds based on EVA and EPDM; also applicable in compounds based on CR, ACM and AEM

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3. Activators

Product Name	Chemical Characteristics ¹⁾	Appearance ¹⁾	Properties ¹⁾	Range of Application ²⁾	
Aktiol	combination of high boiling alcohols	white granules	Density (g/cm ³) Ash Content (%)	approx. 1.42 ³⁾ 29.5	filler activator for silica
Activin	combination of high boiling alcohols and amines	white, fine powder	Density (g/cm ³) Ash Content (%)	approx. 1.33 ³⁾ 26.0	extremely alkaline activator for silica, especially recommended for compounds based on NR

4. Silane Preparations

Product Name	Chemical Indication ¹⁾ (Active Agent)	Content (%)	Appearance ¹⁾	Properties ¹⁾	Range of Application ²⁾	
Silanogran SI-69/GR	bis-[3-(triethoxysilyl)propyl]-tetrasulfane (TESPT)	50	light granules, free-flowing	Density (g/cm ³) Ash Content (%)	approx. 1.17 ³⁾ 29.5	bonding agent for sulfur cured compounds filled with silica, silicate, aluminum hydroxide and other hydroxide group containing fillers
Silanogran SI-69/GR 70	bis-[3-(triethoxysilyl)propyl]-tetrasulfane (TESPT)	70	light granules, free-flowing	Density (g/cm ³) Ash Content (%)	approx. 1.23 ³⁾ 31.0	
Silanogran M	3-mercaptopropyl-trimethoxy-silane	50	light granules, free-flowing	Density (g/cm ³) Ash Content (%)	approx. 1.35 ³⁾ 61.0	bonding agent for sulfur cured compounds filled with silica, silicate, aluminum hydroxide and other hydroxide group containing fillers
Silanogran PV	trimethoxysilyl-modified polybutadiene	50	beige granules, free-flowing	Density (g/cm ³) Ash Content (%)	approx. 1.10 ³⁾ 32.0	polymeric silane bonding agent for sulfur and peroxide cured compounds containing silicate and hydroxide group containing fillers; especially recommended for Sillitin and calcined clay
Silanogran HVS	trimethoxyvinyl-silane, hydrolyzed	50	light granules, free-flowing	Density (g/cm ³) Ash Content (%)	approx. 1.38 ³⁾ 72.0	bonding agent (vinyl silane) for peroxide cured compounds, silica, silicate fillers, aluminum hydroxide and other hydroxide group containing fillers
Silanogran VES	alkyl groups containing triethoxyvinylsilane	50	light granules, free-flowing	Density (g/cm ³) Ash Content (%)	approx. 1.36 ³⁾ 64.0	bonding agent (vinyl silane) for peroxide cured compounds, silica, silicate fillers, aluminum hydroxide and other hydroxide group containing fillers; leads to excellent insulation properties

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5. Coagents for Peroxide Curing

Product Name	Chemical Indication ¹⁾ (Active Agent)	Content (%)	Appearance ¹⁾	Properties ¹⁾	Range of Application ²⁾
Actigran 50	trimethylolpropan-trimethacrylate (TRIM, TMPTMA)	50	white granules, free-flowing	Density (g/cm ³) Ash Content (%)	approx. 1.22 ³⁾ 28.5
Actigran 70	trimethylolpropan-trimethacrylate (TRIM, TMPTMA)	70	white granules, free-flowing	Density (g/cm ³) Ash Content (%)	approx. 1.20 ³⁾ 26.5
Actigran SO 70	scorch-retarded trimethylolpropan-trimethacrylate (TRIM, TMPTMA)	70	white granules, free-flowing	Density (g/cm ³) Ash Content (%)	approx. 1.24 ³⁾ 23.5 modified trimethylolpropan-trimethacrylate coagent with improved scorch behavior
TAC/GR 50	triallyl cyanurate (TAC)	50	white granules, free-flowing	Density (g/cm ³) Ash Content (%)	approx. 1.17 ³⁾ 25.5
TAC/GR 70	triallyl cyanurate (TAC)	70	white granules, free-flowing	Density (g/cm ³) Ash Content (%)	approx. 1.21 ³⁾ 23.0
TAC-70 XP	triallyl cyanurate (TAC)	70	white powder, free-flowing	Density (g/cm ³) Ash Content (%)	approx. 1.21 ³⁾ 25.0
TAIC 50	triallyl isocyanurate (TAIC)	50	white powder, free-flowing	Density (g/cm ³) Ash Content (%)	approx. 1.48 ³⁾ 46.5
TAIC 70	triallyl isocyanurate (TAIC)	70	white powder, free-flowing	Density (g/cm ³) Ash Content (%)	approx. 1.36 ³⁾ 27.5
Pertac/GR	1.2 polybutadiene	60	white granules, free-flowing	Density (g/cm ³) Ash Content (%)	approx. 1.18 ³⁾ 30.5 polymeric processing aid; coagent for peroxide curing; especially suitable for hard, highly filled compounds

6. Desiccants

Product Name	Chemical Characteristics ¹⁾	Appearance ¹⁾	Properties ¹⁾	Range of Application ²⁾
Kezadol GR	calcium oxide coated with special dispersing agents	light grey, soft granules, free-flowing	active CaO (%) Density (g/cm ³) Ash Content (%)	81.5 approx. 2.36 ³⁾ 81.5 fine particle size calcium oxide preparation to be used as desiccant for rubber articles produced with pressureless curing methods
Kezadol GR/DAB	calcium oxide coated with special dispersing agents	light grey, soft granules, free-flowing	active CaO (%) Density (g/cm ³) Ash Content (%)	77.5 approx. 2.20 ³⁾ 78.5 quality like Kezadol GR, however suitable for compounds which come into contact with food according to BfR XXI and FDA CFR 21 § 177.2600
Kezadol PCI	calcium oxide coated with special dispersing agents	light grey powder	active CaO (%) Density (g/cm ³) Ash Content (%)	89 approx. 2.73 ³⁾ 89.5 quality like Kezadol GR, especially suited for extremely soft compounds and polymer solutions like PVC plastisols

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7. Antitacks

Product Name	Chemical Characteristics ¹⁾	Appearance ¹⁾	Properties ¹⁾		recommended dilution (in water)	Range of Application ²⁾ *
Talcubex	non-dusting prepared talc	white, dust-free powder	Density (g/cm ³) Ash Content (%)	approx. 2.6 ³⁾ 75.0		asbestos free talc to treat uncured rubber compounds
Antitack NP-97	zinc stearate dispersion	white paste of medium viscosity	pH-value (diluted 1 + 10) Dry matter (%)	7.5 23.5	1:10 up to 1:20	antitack agent to be used in dip tanks
Antitack NP-97/TY-40	zinc stearate dispersion	white paste of medium viscosity	pH-value (diluted 1 + 10) Dry matter (%)	7.5 43.0	1:20 up to 1:40	antitack agent to be used in batch-off machines with dip tank or spraying systems
Antitack BTO-7	combination of biological degradable detergents	yellow, slightly opaque liquid	pH-value (diluted 1 + 10)	7.0	1:10 up to 1:20	transparent antitack agent to be used in batch-off machines with dip tank or spraying systems
Antitack BTO-13	dissolved polymers with biological degradable detergents	yellow, transparent liquid	pH-value (diluted 1 + 10)	7.5	1:15 up to 1:20	transparent antitack agent to be used in batch-off machines with dip tank or spraying systems
Antitack BTO-15	dissolved polymers and pyrogenic silica with biological degradable detergents	yellowish, opaque liquid	pH-value (diluted 1 + 10)	7.0	1:15 up to 1:20	transparent antitack agent to be used in batch-off machines with dip tank or spraying systems, coating has a very good grip
Antitack BTO-20	combination of polyglycol monoethers	colorless liquid	Density (g/cm ³) (15 °C)	1.09		mandrel release agent
Antitack BTO-30	magnesium stearate dispersion	white paste of medium viscosity	pH-value (diluted 1 + 10) Dry matter (%)	9.5 27.0	1:10 up to 1:20	antitack agent to be used in batch-off machines with dip tanks
Antitack BTO-31 LF	magnesium stearate dispersion	white paste of medium viscosity	pH-value (diluted 1 + 10) Dry matter (%)	9.5 29.0	1:10 up to 1:20	antitack agent to be used in batch-off machines with dip tank or spraying systems, transparent antitack coating
Antitack BTO-33	magnesium stearate dispersion	white paste of medium viscosity	pH-value (diluted 1 + 10) Dry matter (%)	9.0 20.0	1:15 up to 1:25	antitack agent to be used in batch-off machines with dip tanks
Antitack BTO-36	magnesium stearate dispersion	white paste of medium viscosity	pH-value (diluted 1 + 10) Dry matter (%)	9.0 28.0	1:15 up to 1:25	antitack agent to be used in batch-off machines with dip tanks
Antitack BTO-40 TP	combination of minerals and detergents	beige powder	pH-value (diluted 1 + 30)	9.5	1:30 up to 1:50	antitack agent concentrate in powder form, to be used in batch-off machines with dip tank or spraying systems; transparent antitack coating
Antitack BTO-44 VC	combination of minerals, calcium stearate and detergents	light yellow powder	pH-value (diluted 1 + 30)	8.5	1:30 up to 1:50	antitack agent concentrate in powder form, to be used in batch-off machines with dip tank or spraying systems; visible antitack coating

* Which antitack is to choose, mainly depends on the batch-off machines used.
Take advantage of our experience and our advice service!



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<input type="checkbox"/> Dispergator FL plus	_____	_____
<input type="checkbox"/> Mediaplast 40	_____	_____
<input type="checkbox"/> Mediaplast 50	_____	_____
<input type="checkbox"/> Mediaplast 60	_____	_____
<input type="checkbox"/> Aktiol/Activin	_____	_____
<input type="checkbox"/> Silane Preparations (Silanogran SI-69/GR, Silanogran M, Silanogran HVS, Silanogran PV, Silanogran VES)	_____	_____
<input type="checkbox"/> Peroxide Activators (Actigran 50, Actigran 70, Actigran SO 70, TAC/GR 50, TAC/GR 70, TAIC 50, TAIC 70)	_____	_____
<input type="checkbox"/> Pertac/GR	_____	_____
<input type="checkbox"/> Kezadol	_____	_____
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<input type="checkbox"/> Heat Transfer Fluids (Mediatherm 250 LL, Mediatherm SNS II)	_____	_____

Notes/Miscellaneous:

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