



**Biesterfeld**

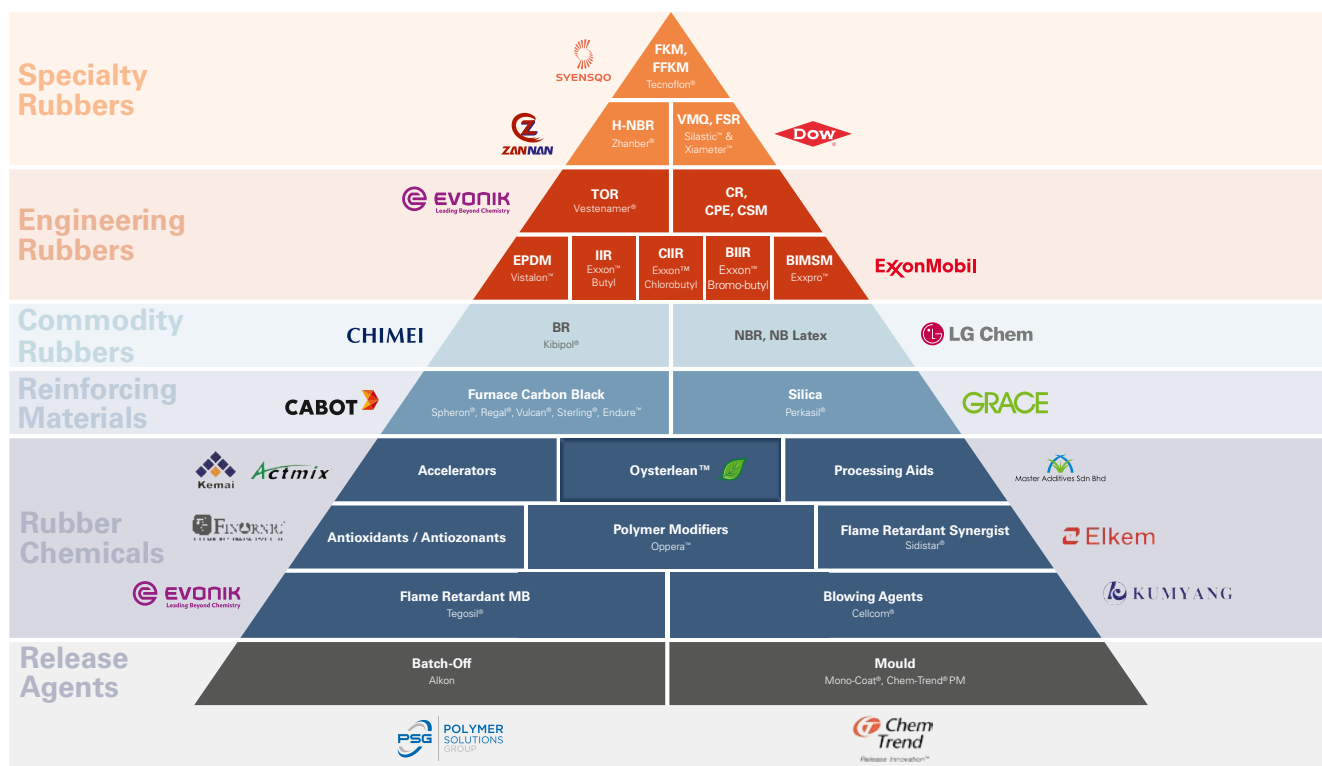
*Competence in Solutions*

# Performance Rubber & Additives



Polymers  
Carbon Blacks  
Blowing Agents  
Flame Retardants  
Polymer Modifiers  
Processing Aids  
Polybutenes  
Rubber Additives / Polymerbound  
Batch-Off-Release Agents  
Release Agents  
Rubber Additives / Pure Substances  
PTFE Micronized Powder  
Silicone Rubber  
Silicone Rubber Additives

## Portfolio Germany



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## Polymers

### EP(D)M – Ethylene-Propylene Rubber

Product	Grade	Oil phr	Mooney viscosity ML (1+4 at 125°C) ASTM D1646	Ethylene weight % ASTM D3900	ENB weight % ASTM D6047	MWD type	Form
EPDM Terpolymers	Vistalon™ 1703P	-	25	77	0.9 <sup>1</sup>	Broad	Pellet
	Vistalon™ 1705	-	35	77	0.9 <sup>1</sup>	Broad	Dense bale
	Vistalon™ 2502	-	25	50	4.5	Medium	Fused pellets
	Vistalon™ 2504	-	25	58	4.7	Broad	Dense bale
	Vistalon™ 3655	50	50	63	4.0	Broad	Dense bale
	Vistalon™ 3666B	75	50	63	4.2	Broad	Dense bale
	Vistalon™ 3695	100	50	63	4.5	Broad	Dense bale
	Vistalon™ 3702	-	60	69	2.8	Narrow	Pellet
	Vistalon™ 5600	-	72	69	5.0	Medium	Friable bale
	Vistalon™ 5601	-	72	69	5.0	Narrow	Pellet
	Vistalon™ 5702	-	90	71	5.5	Medium	Pellet
	Vistalon™ 6602	-	80	55	5.2	Narrow	Fused pellets
	Vistalon™ 7001	-	60	73	5.0	Narrow	Pellet
	Vistalon™ 7500	-	822	56	5.7	Bimodal	Semi-dense bale
	Vistalon™ 7602	-	65	55	7.5	Narrow	Fused pellets
	Vistalon™ 8731	-	24	76	3.3	Broad	Dense bale
Vistalon™ 9301	-	67	69	2.8	Narrow	Pellet	
EP Copolymers	Vistalon™ 404	-	28	45	-	Broad	Dense bale
	Vistalon™ 501	-	153	57	-	Narrow	Fused pellets
	Vistalon™ 502	-	254	57	-	Narrow	Fused pellets
	Vistalon™ 703	-	21	73	-	Narrow	Dense bale
	Vistalon™ 706	-	42	65	-	Medium	Dense bale
	Vistalon™ 722	-	165	72	-	Narrow	Pellet
	Vistalon™ 785	-	30	49	-	Narrow	Dense bale
	Vistalon™ 805	-	33	78	-	Narrow	Dense bale
	Vistalon™ 878	-	51	61	-	Narrow	Dense bale
	Vistalon™ 878P	-	48	61	-	Narrow	Pellet
Vistalon™ 919	-	18	60	-	Narrow	Dense bale	

### IIR – Isobutene-Isopropene Rubber

Product	Grade	Density (g/cm <sup>3</sup> )	Mooney Viscosity, ML (1+8) 125°C	Antioxydant Content		Functional Content	
Exxon Chlorobutyl CIIR	1066	0,92	38 ± 4	0,02 %	non staining	1,26±0,08	w-% Chlorine
Exxon Bromobutyl BIIR	2211	0,93	32 ± 4	0,02 %	non staining	1,08±0,15	mol-% Bromine
	2222	0,93	32 ± 4	0,02 %	non staining	1,03±0,30	mol-% Bromine
	2244	0,93	46 ± 5	0,02 %	non staining	1,08±0,15	mol-% Bromine
	2255	0,93	46 ± 5	0,02 %	non staining	1,03±0,30	mol-% Bromine
Exxpro™	3035	0,93	45 ± 5	n.a.	n.a.	0,47±0,05	mol-% Bromine
	3433	0,93	35 ± 5	n.a.	n.a.	0,75±0,07	mol-% Bromine
	3745	0,93	45 ± 5	n.a.	n.a.	1,20±0,10	mol-% Bromine
Butyl	065S	0,92	29 - 35	0,03 %	non staining	0,85 - 1,25	mol-% Unsaturation
	268S	0,92	46 - 56	0,03 %	non staining	1,50 - 1,90	mol-% Unsaturation
	365S	0,92	30 - 36	0,03 %	non staining	2,00 - 2,60	mol-% Unsaturation

1 VNB used as diene

## HNBR – Hydrogenated Butadiene Acrylonitrile Co-Polymer

Product	Type	ACN content (%)	Mooney Viscosity, ML (1+4) 100°C	Hydrogenation Degree (%)	Iodine value (mg/100mg)
Zhanber®	ZN28255	28	50	90	23-31
Zhanber®	ZN35053	36	35	99	4-10
Zhanber®	ZN35056	36	65	99	4-10
Zhanber®	ZN35058	36	85	99	4-10
Zhanber®	ZN350510	36	100	99	4-10
Zhanber®	ZN35153	36	35	95	11-17
Zhanber®	ZN35156	36	60	95	11-17
Zhanber®	ZN35158	36	80	95	11-17
Zhanber®	ZN35253	34	35	90	23-31
Zhanber®	ZN35256	34	60	90	23-31
Zhanber®	ZN35258	34	80	90	23-31
Zhanber®	ZN35355	35	50	85	52-60
Zhanber®	ZN39057	39	70	99	4-10
Zhanber®	ZN43056	42	65	99	4-10
Zhanber®	ZN43058	42	85	99	4-10
Zhanber®	ZN43156	42	65	95	11-17
Zhanber®	ZN43259	42	90	90	18-26

## BR – Butadiene Rubber

Product	Grade	Cis content	Mooney Viscosity, ML (1+4) 100°C	Catalyst	Properties
CHIMEI Kibipol®	PR-255	low cis BR (<35 %)	MV 1+4: 54	Li-catalyzed	Colorless, odorless
CHIMEI Kibipol®	PR-040	high cis BR (>97 %)	MV 1+4: 45	Nd-catalyzed	White, modern tyre quality
CHIMEI Kibipol®	PR-040S	high cis BR (>97 %)	MV 1+4: 45	Nd-catalyzed	White, shoe soles, modern tyre quality
CHIMEI Kibipol®	PR-060	high cis BR (>97 %)	MV 1+4: 63	Nd-catalyzed	White, modern tyre quality

## SBR – Styrene Butadiene Rubber

Product	Grade	Mooney Viscosity, ML (1+8) 125°C	Styrene content		Functional Content
ESBR	1500 stabilized	52	23,5 %	staining	Dark brown, tyre quality
	1502 stabilized	52	23,5 %	non staining	Pale, industrial quality
CHIMEI Kibipol® SSBR	1778 oil extended	41-51	23,5 %	non staining	Pale, industrial purpose
	PR-1205 Li catalyzed	47	18,0 %	non staining	White (for EC label tyres)
	PR-6256 oil extended	47	25,0 %	non staining	Tyres
	PR-6345 oil extended	70	34,0 %	n.a.	Tyres
	PR-6404	n.a.	n.a.	n.a.	Tyres
	PR-3216	62	21,0 %	non staining	Tyres
	PR-3285	65	28,0 %	n.a.	Tyres

## CPE – Chlorinated Polyethylene

Product	Chlorine Content (%)	Mooney Viscosity ML (1+4) 125°C	Shore A	Typical application
<b>CM 3660 T</b>	35 - 37	60 - 75	≤ 60	Wire and cable, hoses
<b>CM 3690</b>	35 - 37	85 - 95	≤ 60	Rubber compounding
<b>CM 3685</b>	35 - 37	80 - 90	≤ 60	Rubber compounding
<b>CM 3675</b>	35 - 37	70 - 80	≤ 55	Wire and cable, hoses
<b>CM 3665</b>	35 - 37	60 - 70	≤ 55	Wire and cable, hoses, clean surface, high extruding speed
<b>CM 3660</b>	35 - 37	55 - 65	≤ 55	Wire and cable, hoses, clean surface, high extruding speed
<b>CM 3655</b>	35 - 37	50 - 60	≤ 55	Cable jacketing
<b>CM 3650</b>	35 - 37	45 - 55	≤ 55	Cable jacketing
<b>CM 4085</b>	39 - 41	80 - 100	≤ 55	High level flame and oil resistance
<b>CM 3055</b>	29 - 31	50 - 60	≤ 65	Suitable for magnetic materials
<b>CPE 135A</b>	35 - 37	80 - 100	≤ 60	PVC impact modifier
<b>CPE 135A-PS</b>	35 - 37	80 - 100	≤ 60	PVC impact modifier, higher plastification speed
<b>MF 1032</b>	31 - 33	50 - 60	≤ 65	Impact modifier for ABS and PU

## CSM – Chlorosulfonated Polyethylene

Product	Type	Mooney Viscosity ML (1+4) 100°C	Chlorine content	Typical application
<b>CSM 20</b>	n.a.	22-31	29 ± 2%	Adhesives, tapes, soft coatings, natural rubber modification
<b>CSM 30</b>	n.a.	35-45	43 ± 2%	Adhesives, hard coatings, pipelines, anticorrosion lining
<b>CSM 40</b>	3304	41-50	35 ± 2%	Automotive hoses, rubber seals, wire and cable
<b>CSM 40</b>	3305	51-60	35 ± 2%	Automotive hoses, rubber seals, wire and cable rubber compounds, rubber rollers
<b>CSM 4085</b>	n.a.	85-95	36 ± 2%	High perform. automot. hoses, oil seal products, special tapes
<b>CSM 45</b>	n.a.	32-42	23,5 ± 1,5%	Magnetic rubber, radiation shield, high rigidity products
<b>CSM 6525</b>	n.a.	83-97	27 ± 2%	Automobile accessories, drive belts, pump & hydraulic hoses

## CR – Chloroprene Rubber

Serie	Grade	Mooney Viscosity ML (1+4) 125°C	Type	Crystalization rate	Properties	Main application
<b>CR121</b>	CR1211	30 - 45	Sulfur-modified	Medium	good resistance to tear and flexure	rubber products such as conveyor belts, v belts, timing belts and cable sheath
	CR1212	46 - 60				
<b>CR232</b>	CR2321	35 - 45	xanthogen or dodecyl mercaptan modified	Medium	good heat resistance and high temperature stability	light-coloured rubber products, such as seals, dust covers, liners, rubber dams and hose outer sheath
	CR2322	46 - 55				
	CR2323	tailor made				
<b>CR322</b>	CR3221	30 - 45	sulfur and xanthogen mixed-modified	Medium	high tear strength, better processibility over sulfur-modified grade	rubber products such as belts, hoses and cable sheath
	CR3222	46 - 60				
<b>DCR144</b>	DCR1441	30 - 45	sulfur-modified copolymer of chlorobutadiene and dichlorobutadiene	Very slow	good molding adhesion, the preferred choice for high strength dynamic products and low temperature properties	transmission belts such as timing belts and ribbed belts
	DCR1442	46 - 60				
<b>DCR213</b>	DCR2131	30 - 45	xanthogen or dodecyl mercaptan modified copolymer of chlorobutadiene and dichlorobutadiene	Very slow	excellent anti-crystallization performance	dust covers, highway and bridge vibration cushions, seals and other products of low temperature application
	DCR2132	46 - 60				
	DCR213HML	tailor made				

Serie	Grade	Viscosity in 5% toluene solution, mPa.s	Type	Crystalization rate	Properties	Main application
<b>CR244</b>	CR2441	25 - 34	xanthogen or dodecyl mercaptan modified	fast	high bonding strength at room temperature	adhesives for bonding and self adhesion between rubber, leather, fiber, metal, wood and cement products
	CR2442	35 - 53				
	CR2443	54 - 75				
	CR2444	76 - 115				
	CR2444A	116 - 140				
	CR2444B	≥141				

## FKM – Fluorocarbon Rubber

### Bisphenol-Curable Dipolymers

Product	Fluorine Content (%)	Mooney Viscosity, ML (1+10) 121°C	TR <sub>10</sub> (°C)	Description
Tecnoflon® N 215/U	66	10	-17	Base polymer
Tecnoflon® N 535	66	27	-17	Base polymer, FDA compliant
Tecnoflon® N 935	66	62	-17	Base polymer, FDA compliant
Tecnoflon® NH	66	124	-17	Base polymer, FDA compliant
Tecnoflon® FOR 210	66	10	-17	Cure incorporated
Tecnoflon® FOR 421/U	66	24	-17	Cure incorporated
Tecnoflon® FOR 531	66	46	-17	Cure incorporated
Tecnoflon® FOR 5312K	66	42	-17	Cure incorporated, metal adhesion
Tecnoflon® FOR 5351	66	24	-17	Cure incorporated
Tecnoflon® FOR 5351/U	66	24	-17	Cure incorporated
Tecnoflon® FOR 539	66	21	-17	Cure incorporated
Tecnoflon® FOR 60K/U	66	31	-17	Cure incorporated
Tecnoflon® FOR 610	66	n.a.	-17	Cure incorporated
Tecnoflon® FOR 7353	66	38	-17	Cure incorporated, FDA compliant

### Bisphenol-Curable Terpolymers

Product	Fluorine Content (%)	Mooney Viscosity, ML (1+10) 121°C	TR <sub>10</sub> (°C)	Description
Tecnoflon® TN 50A	68	23	-14	Base polymer
Tecnoflon® TN	68	67	-14	Base polymer, FDA compliant
Tecnoflon® FOR 4391	70	49	-7	Cure incorporated
Tecnoflon® FOR 5381	68,5	21	-13	Cure incorporated
Tecnoflon® FOR 7380K	68	32	-14	Cure incorporated, metal adhesion
Tecnoflon® FOR 9381	68,5	50	-13	Cure incorporated

### Bisphenol-Curable Low-Temperature Terpolymers

Due to the specific monomer composition, these grades show improved cold-temperature flexibility compared to bisphenol terpolymers and dipolymers

Product	Fluorine Content (%)	Mooney Viscosity, ML (1+10) 121°C	TR <sub>10</sub> (°C)	Description
Tecnoflon® T 636/L	66	22	-19	Base polymer
Tecnoflon® FOR 5361	66	21	-19	Cure incorporated
Tecnoflon® FOR 6363A	65,5	30	-19	Cure incorporated
Tecnoflon® FOR TF636	66	31	-19	Cure incorporated



### Peroxide-Curable

Product	Fluorine Content (%)	Mooney Viscosity, ML (1+10) 121°C	TR <sub>10</sub> (°C)	Description
Tecnoflon® P 457	67	21	-15	n.a.
Tecnoflon® P 757	67	45	-15	FDA compliant
Tecnoflon® P 459	70	24	-5	n.a.
Tecnoflon® P 959	70	48	-5	FDA compliant

### Peroxide-Curable Low-Temperature

Product	Fluorine Content (%)	Mooney Viscosity, ML (1+10) 121°C	TR <sub>10</sub> (°C)
Tecnoflon® PL 458	66	29	-24
Tecnoflon® PL 958	66	53	-24
Tecnoflon® PL 557	65,5	35	-29
Tecnoflon® PL 455	64	19	-30
Tecnoflon® PL 855	64	54	-30

### Peroxide-Curable Extreme Low-Temperature

Product	Fluorine Content (%)	Mooney Viscosity, ML (1+10) 121°C	TR <sub>10</sub> (°C)
Tecnoflon® VPL 55540	65	25	-40
Tecnoflon® VPL 85540	65	45	-40

### Specialty Grades

Product	Description
Tecnoflon® TN Latex	Water-based FKM Terpolymer emulsion (70 % solids), alternative to solvent-based fluoro-elastomer coatings
Tecnoflon® NM Powder	FKM Copolymer used as processing aid for polyolefins
Tecnoflon® FPA1	Fluorinated processing aid for rubber, improves flowability
Tecnoflon® M1	Curative (Bisphenol AF crosslinker)
Tecnoflon® M2	Curative (Phosphonium salt accelerator)

### TOR – trans-Polyoctenamer

Product	Description	Benefits	Applications
VESTENAMER® 8012	trans-Polyoctenamer	Reduces viscosity Increases Compatibility Higher green Strength Flowability & Tack control Crosslinks waste rubbers	Thermoplast which turns into Rubber, used as processing aid Calendaring Tire production Batch technology Modification of thermoplastics Rubber recycling

## Carbon Blacks

### Reinforcing Grades

Product	Type	Specific Surface		Structure		
		STSA (m <sup>2</sup> /mg)	Iodine (mg/g)	crushed OAN (ml/100g)	OAN (ml/100g)	Tint strength % ITRB
<b>VULCAN® 10HD</b>	N134	129	142	97	101	132
<b>VULCAN® 9</b>	N115/SAF	123	160	96	113	123
<b>VULCAN® 9H</b>	N121	114	121	111	132	119
<b>VULCAN® 6</b>	N220/SAF	104	121	98	114	115
<b>VULCAN® 7H</b>	N234	113	120	101	125	124
<b>REGAL® 300</b>	N326/HAF-LS	78	82	68	72	111
<b>VULCAN® 3</b>	N330/HAF	76	82	88	102	104
<b>VULCAN® M</b>	N339	87	90	100	120	110
<b>VULCAN® 3H</b>	N347/HAF-HS	82	90	97	124	104
<b>VULCAN® J</b>	N375	91	90	96	114	115
<b>VULCAN® 1345</b>	n.a.	122	124	94	110	128
<b>VULCAN® 1391</b>	n.a.	157	202	99	134	145

### Semi Reinforcing Grades

Product	Type ASTM-D1765	Specific Surface		Structure		
		STSA (m <sup>2</sup> /mg)	Iodine (mg/g)	crushed OAN (ml/100g)	OAN (ml/100g)	Tint strength % ITRB
<b>STERLING® SO-1</b>	N539/FEF-LS	39	43	82	111	58
<b>STERLING® SO</b>	N550/FEF	40	43	84	121	59
<b>STERLING® V</b>	N660/GPF	36	36	73	90	60
<b>STERLING® 105</b>	N683/APF	36	35	87	133	55
<b>STERLING® VH</b>	N650/GPF-HS	35	36	82	122	56
<b>REGAL® SRF</b>	N772/SRF-LM-NS	31	30	57	65	57
<b>SPHERON® 4000</b>	n.a.	29	32	48	52	54

### Conductive Grades

Product	Type ASTM-D1765	Specific Surface		Structure		
		STSA (m <sup>2</sup> /mg)	Iodine (mg/g)	crushed DBP (ml/100g)	DBP (ml/100g)	Tint strength % ITRB
<b>VULCAN® P</b>	N294/SCF	96	172	97	116	104
<b>VULCAN® XC-72</b>	N472/ECF	127	253	120	174	87

## Class A Grades

Product	Type ASTM-D1765	Specific Surface		Structure		
		STSA (m <sup>2</sup> /mg)	Iodine (mg/g)	crushed DBP (ml/100g)	DBP (ml/100g)	Tint strength % ITRB
<b>SPHERON® 6400A</b>	n.a.	18	16	71	95	34
<b>SPHERON® 6000A</b>	n.a.	21	20	70	92	37
<b>SPHERON® 5000A</b>	n.a.	27	27	80	120	45
<b>SPHERON® SO-1A</b>	N539/FEF-LS	38	43	82	111	57
<b>SPHERON® SOA</b>	N550/FEF	40	43	84	121	60

## Low PAH Grades

Product	Type ASTM-D1765	PAH content* (ppm)		
		Benzo(a)- pyrene (max value)	For each of 8 PAH included in EU list (max value)	For sum of 18 PAH included in GS Mark list (max value)
<b>SPHERON SO-LP</b>	N550/FEF	1	1	20
<b>SPHERON 4000-LP</b>	n.a.	1	1	20
<b>VULCAN 6-LP</b>	N220/SAF	1	1	20

\* Cabot internal test method requires 48 hours toluene extraction (Soxhlet)

\* STSA, Iodine and OAN is the same as for normal carbon black grades without low PAH

## Endure Series

Product	Grade	Benefits & Applications
<b>E Series CB</b>	Endure™ E45 CB Endure™ E43 CB Endure™ E37 CB Endure™ E33 CB Endure™ E23 CB	Enhanced balance in hysteresis and reinforcement For applications & needs, calling for a lower hysteresis and heat built up e.g.: Low RR long haul conveyor belts, less energy consumption Rubber Tracks; reduce heat built up induced part life failures („blow outs“)
<b>D Series CB</b>	Endure™ D53 CB  Endure™ D63 CB	Enhanced Abrasion, Tear and Chip, Cut & Chunk Resistance For applications, benefitting from better wear Resistance for longer part life e.g.: Mining Mill Liners Top Cover of High Wear Resistant Conveyor Belts Tread of Rubber Tracks

## Evolve™ – Sustainable Solutions

Product	Grade	Benefits
<b>Evolve™</b>	Sterling® SO-RC110	10% of recovered Carbon Black with Sterling SO, ISCC PLUS certified Conforms to ASTM N550
<b>Evolve™</b>	Vulcan® 7H-C	Reinforcing material made from ISCC PLUS certified tire pyrolysis oil Conforms to ASTM N234

## Blowing Agents

Product	Type	Description	Decomposition Temp.	Gas volume	Application Details
<b>CELLCOM - CAP</b>	Micro-Capsules	high pressurized gases (e.g. butene), enclosed in polymeric shells	115-185°C	n.a.	Suitable for most polymers. Shell residue may suffer the pureness of the blown product
<b>CELLCOM - H</b>	TSH	p-Toluenesulfonylhydrazide	148-154°C	120-130 ml/g	Elastomer foaming for high hygienic (medical) purposes: NR, SBR, IIR, CR, EPDM, EVA.
<b>CELLCOM - OBSH</b>	OBSH powder / dust free powder	P,P'-Oxybis Benzene Sulfonyl Hydrazide	158-164°C	125-140 ml/g	Fine foam structure, no odour, no colouring. Applicable for food and medical products. PVC, EVA, EPDM, CR, NR, SBR, NBR, NBR/ PVC, PE-LD, PU
<b>CELLCOM - EPOB/75</b>	OBSH polymer-bound granules	p,p'-Oxybis (benzenesulfonylhydrazide) with EPDM	158-164°C	90-105 ml/g	
<b>KY-ECO</b>	modified OBSH, polymerbound granules	4,4'-Oxybis(benzenesulfonylhydrazide) with EVA	148-154°C	58-68 ml/g	Formamide & Ammonia free OBSH for EVA shoes, PE or EVA mats.
<b>CELLCOM - AC</b>	ADC powder	Azodicarbonamide	196-205°C	240-300 ml/g	Chemical blowing agent, available in various types. Any PVC, HD-PE, LD-PE, PP, PS, HI-PS, EVA, ABS, PPO, TPE and various elastomers basing on EPDM, CR
<b>KYCEROL</b>	Sodium bicarbonate	Sodium bicarbonate	150-190°C	115-125 ml/g	Suitable for food packaging and toys in PE, PP, PVC, PS, EVA, ABS. Rubbers

## Flame retardants

Product	Chemical name	CAS-No.	Classification & Application
<b>Firemaster®2100R</b>	Decabromdiphenyl Ethane	84852-53-9	Brominated flame retardant
<b>Emerald Innovation™ NH-1</b>	Proprietary	n.a.	Low viscosity, halogen free, phosphorus flame retardant
<b>Reofos®</b>	Phenol, Isopropylated, Phosphate (3:1) Triphenyl Phosphate >5 %	68937-41-7	Liquid phosphorus flame retardant, recommended for synthetic rubbers
<b>Zinflam®ZHS</b>	Zinc Hydroxystannate	12027-96-2	Alternative to antimonytrioxide, reduction of smoke density, toxicity and heat release rate; flame retardant and synergist for NR, CR, CSM a.o.
<b>Zinflam®CaB</b>	Calcium Borate	13701-64-7	Smoke Suppressants and harmless synergist as replacement of Zinc Borat

Product	colour	Appearance	Description and Extra benefits besides of major function
<b>Sidistar®R300</b>	grey	densified free flowing powder	FR synergist for halogen free and halogenated flame retardant compounds. Provides stronger char integrity to improve flame retardancy. Reduces dripping; heat- and smoke release. In halogenated systems 50 % substitution of ATO is achievable. Due to its low surface area and morphology (spherical and amorphous) it also has the following benefits: - Improved rheology - Reduced mixing time - Better dispersion and smooth surface finish - Improved D14dynamic fatigue - Improved fiber dispersion - Reinforcement in FKM
<b>Sidistar®R320</b>	off white	densified free flowing powder	
<b>Sidistar®R320U</b>	off white	undensified powder	
<b>Sidistar®T120U</b>	off white	undensified powder	
<b>Sidistar®MB F 21</b>	off white	granuled masterbatch	
<b>Sidistar®M220ST01</b>	off white	undensified powder	
<b>Sidistar®XP320ST69</b>	off white	undensified powder	
<b>Sidishield®C25</b>	off white	undensified powder	

## Polymer Modifiers

Oppera™ is a performance modifier resin designed for use in blends with polymers.

Grade	SP (°C)	Tg (°C)	Comments
<b>Oppera™ C5/C9 Type</b>	n.a.	n.a.	n.a.
<b>Oppera™ PR-373</b>	89,6	40	12% aromaticity
<b>Oppera™ H2/DCPD/C9 Type</b>	n.a.	n.a.	n.a.
<b>Oppera™ PR-383</b>	103,0	54	10% aromaticity
<b>Oppera™ PR-395</b>	117,8	68	10% aromaticity
<b>Oppera™ H2/DCPD Type</b>	n.a.	n.a.	n.a.
<b>Oppera™ PR-140</b>	103,4	52	No aromaticity
<b>Oppera™ PR-120</b>	124,6	74	No aromaticity
<b>Oppera™ PR-100</b>	139,6	90	No aromaticity

## Processing Aids

### Flow Improver

Product	Description	Pastille colour	Extra benefits besides of major function
<b>MA-F44</b>	Reacted blend of fatty acid derivatives	pale yellow	For high mineral/silica filled NR and synthetic rubbers. Cell structure improver for EVA foams
<b>MA-F50</b>	Zinc soaps of unsaturated, high molecular weight fatty acids	beige	Very effective for physical NR and synthetic rubber peptisation, enhances carbon black dispersion
<b>MA-F60</b>	Blend of zinc soaps of high molecular weight fatty acids	yellowish	Dedicated for low temperature mixing, improves NR physical peptisation
<b>MA-F60T</b>	Structure of fatty acid soaps and amides	beige	Improves NR physical peptisation, enhances calandering and extrusion, provides smooth surface and higher tear strength
<b>MA-F70S</b>	Blend of zinc soaps of unsaturated, high molecular weight fatty acids	beige	Very effective for white fillers, especially for high loaded Silica compounds, prevents blooming

### Lubricants

Product	Description	Pastille colour	Extra benefits besides of major function
<b>MA-L16</b>	Structure of fatty acid soaps and amides	pale beige	For practically all elastomers, reduces sticking on metal surfaces, enhances injection moulding
<b>MA-L20</b>	Fatty acid ester derivative	white	General purpose, works with most fillers and cureatives. Enhances mould release
<b>MA-L22</b>	High molecular weight, aliphatic fatty acid ester	white	High temperature capable, very effective in polar polymers. Improves filler incorporation
<b>MA-L25</b>	Fatty acid ester derivative	white	General purpose, works with most fillers and cureatives. Improves mould filling
<b>MA-L33</b>	Structure of high molecular weight esters and fatty acid soaps	beige	Prevents filler agglomeration in high filled compounds. Improves filler incorporation in open and closed mixing systems
<b>MA-L42</b>	Blend of fatty acid derivative	beige/white	Special recommendation for EPM and EPDM. Enhances mould flow
<b>MA-L48</b>	Blend of esters and metal soaps of natural fatty acids	beige/white	Highly effective for specialty Polymers. Particular suitable to improve flow and release of ECO compounds. It also works very well to improve extrusion of NBR/PVC blend compounds
<b>MA-L79</b>	Fatty Acid Ester and Polymer	white	has excellent lubricating properties, which leads to reduction of injection pressure in the moulding process and prevents scorch

## Polybutenes

Product	Description
<b>INDOPOL</b>	Clear and bright viscous liquid synthetic hydrocarbon polymer (molecular weights between 180 - 6000) made by polymerization of Isobutene + N-Butene

## Rubber Additives – Polymerbound

### Accelerators

#### Sulfenamides

Product	Active Ingredient	Content (% m/m)	Carrier	Appearance
<b>Actmix® CBS-80GE F140</b>	N-cyclohexyl-2 benzothiazole sulphenamide	80	EPDM / EVA	Granules
<b>Actmix® DCBS-80GE F140</b>	N,N-Dicyclohexyl-2-benzothiazolesulphenamide	80	EPDM / EVA	Granules
<b>Actmix® TBBS-80GE F140</b>	N-tert butyl-2-benzothiazyl-sulphenamide	80	EPDM / EVA	Granules

#### Thiazoles

Product	Active Ingredient	Content (% m/m)	Carrier	Appearance
<b>Actmix® MBT-80GE F140</b>	2-mercaptobenzothiazole	80	EPDM / EVA	Granules
<b>Actmix® MBTS-75GE F140</b>	Dibenzothiazyl disulphide	75	EPDM / EVA	Granules
<b>Actmix® ZMBT-80GE F140</b>	Zinc salt of 2-mercaptobenzothiazole	80	EPDM / EVA	Granules

#### Dithiocarbamates

Product	Active Ingredient	Content (% m/m)	Carrier	Appearance
<b>Actmix® TDEC-75GE F140</b>	Tellurium diethyldithiocarbamate	75	n.a.	Granules
<b>Actmix® ZBEC-70GE F100</b>	Zinc dibenzyl dithiocarbamate	70	EPDM / EVA	Granules
<b>Actmix® ZDEC-80GE F140</b>	Zinc diethyl dithiocarbamate	80	EPDM / EVA	Granules

#### Guanidines

Product	Active Ingredient	Content (% m/m)	Carrier	Appearance
<b>Actmix® DPG-80GE F140</b>	Diphenylguanidine	80	EPDM / EVA	Granules

#### Thiurams

Product	Active Ingredient	Content (% m/m)	Carrier	Appearance
<b>Actmix® TBzTD-75GE F140</b>	Tetrabenzylthiuram disulphide	75	EPDM / EVA	Granules
<b>Actmix® DPPT-75GE F140</b>	Dipentamethylene thiuram tetrasulphide	75	EPDM / EVA	Granules
<b>Actmix® TMTM-80GE F500</b>	Tetramethylthiuram monosulphide	80	EPDM / EVA	Granules

## Thioureas

Product	Active Ingredient	Content (% m/m)	Carrier	Appearance
<b>Actmix® ETU-80GE F140</b>	N-N'-Ethylenethiourea	80	EPDM / EVA	Granules

## Special accelerators

Product	Active Ingredient	Content (% m/m)	Carrier	Appearance
<b>Actmix® DDTS-80GE F140</b>	Dimethyldiphenylthioperoxy	80	EPDM / EVM	Granules
<b>Actmix® ZBOP-50GE</b>	Zinc dialkyldithiophosphate	50	EPDM / EVA	Granules
<b>Actmix® ZDTP-50GE F500</b>	Zinc dialkyldithiophosphate	50	EPDM / EVA	Granules
<b>Actmix® ZBPD-50GE F140</b>	Zinc o,o-dibutyl dithiophosphate	50	EPDM / EVA	Granules

## Pre-vulcanization inhibitor/ Retarder

Product	Active Ingredient	Content (% m/m)	Carrier	Appearance
<b>Actmix® CTP-80GE F500</b>	N-(Cyclohexylthio) phthalimide	80	EPDM / EVA	Granules
<b>Actmix® Retarder E-80GE F200</b>	N-Phenyl-N-(trichloromethylsulfonyl)-benzene sulfonamide	80	EPDM / EVA	Granules

## Sulphurs and Sulphur donors


Product	Active Ingredient	Content (% m/m)	Carrier	Appearance
<b>Actmix® DTDM-80GE</b>	4,4'-Dithiodimorpholine	80	n.a.	n.a.
<b>Actmix® S-80GE F120</b>	Sulphur	80	EPDM / EVA	Granules
<b>Actmix® S-80GS</b>	Sulphur	80	SBR	Granules
<b>Actmix® S-80GN F140</b>	Sulphur	80	NBR	Granules
<b>Actmix® IS60-75GE</b>	Insoluble Sulfur	75	EPDM / EVA	Granules

## Metal Oxide

Product	Active Ingredient	Content (% m/m)	Carrier	Appearance
<b>Actmix® MgO 75GE F140</b>	Magnesium oxide	75	EPDM / EVA	Granules



## Calcium Carbonate

Product	Description	Source	Benefits
 <b>OYSTERLEAN-1™</b>	CaCO <sub>3</sub> – calcium carbonate (contains C14)	bio-renewable substitute (waste of oyster shells)	Lowering Carbon Footprint / Mass Balance LCA (-) 0,2 kg CO <sub>2</sub> eq.

## Co-Agents

Product	Active Ingredient	Content (% m/m)	Carrier	Appearance
<b>Biesterfeld TAC 70E</b>	Triallylcyanurat	70	Silica	fine white powder

### Co-agent for sulphur-free vulcanisation

Product	Active Ingredient	Content (% m/m)	Carrier	Appearance
<b>Actmix® HMDC-70GA</b>	Hexamethylene diamine carbamate	70	EPDM / EVA	Granules

## Batch-Off-Release Agents

### Liquids

Product	Active	Description
<b>Alkon 6460</b>	26%	Easy dispersed in water
<b>Alkon 7310</b>	28%	Uniform coatings on rubber compounds
<b>Alkon 7315</b>	n.a.	Superior release properties Customized formulations available

### Dispersions

Product	Active	Description
<b>Polycoat RLS-40</b>	31,5-35,3%	Is a stable high solids slurry for a wide range of synthetic rubber. It is environmentally friendly and contains no zinc, alpha quartz or SARA reportable compounds. Compatible with SASCO Automated Slurry System
<b>Polycoat LCD</b>	36,2%	Is an effective anti-tack coating on some of the toughest polymers and environmentally friendly

### Powders

Product	Active	Description
<b>Alkon 9520</b>	100%	Easy dispersed in water
<b>Alkon 9420</b>		Uniform coatings on rubber compounds
<b>Alkon 9195L</b>		Minimum foaming or sedimentation
<b>Alkon 9310AA</b>		Excellent release properties Very strong and rigid coating

## Release Agents

Product	Type	Advantages
<b>MONO-COAT®</b>	Semipermanent release agents	Low transfer Renewable if needed Controllable properties Less molding fouling Easy mold cleaning
<b>Chem-Trend PM®</b>	Conventional release agents	Dilutable (cost reduction) Easy application High Slip properties

# Rubber Additives – Pure substances

## Antioxidants / Antiozonants

Product	Active Ingredient	Colour	Appearance
<b>IPPD</b>	N-isopropyl-N'-phenyl-p-phenyldiamine	grew purpel to purpel brown	pastilles
<b>6PPD</b>	N-(1,3-dimethyl-butyl)-N'- phenyl-p-phenyldiamine	grew purpel to purpel brown	pastilles
<b>TMQ</b>	polymeric 2,2,4-trimethyl-1,2-dihydrochinoline	amber to light brown	pastilles/pellets/powder
<b>CDPA</b>	4,4'-bis-(1,1-dimethylbenzyl)- diphenylamine	white	powder
<b>ODPA</b>	4,4'-dioctyl diphenylamine	light pink to light brown	pastilles/powder
<b>MBI</b>	2-mercaptobenzimidazole	white to off white	powder/oiled coated powder
<b>MMBI</b>	4- /5- methyl mercaptobenzimidazole	white to off white	powder/oiled coated powder

## Accelerators

### Sulfenamides

Product	Active Ingredient	Colour	Appearance
<b>CBS</b>	N-cyclohexyl-2 benzothiazole sulphenamide	off-white/greyish	granules/oil coated powder
<b>TBBS</b>	N-tert-butyl-2-benzothiazyl sulfenamide	off-white/greyish	powder/oil coated powder
<b>DCBS</b>	N,N-dicyclohexyl-2-benzothiazole sulphenamide	light brown	granules/oil coated powder
<b>TBSI</b>	N-t-butyl-di-(2-benzothiazole) sulfenimide	grayish/white	oil coated powder

### Thiazoles

Product	Active Ingredient	Colour	Appearance
<b>MBT</b>	2-Mercaptobenzothiazole	light yellow	granules/oil coated powder
<b>MBTS</b>	Dibenzothiazylsulfide	yellow	granules/oil coated powder
<b>ZMBT</b>	Zinc salt of 2-mercaptobenzothiazole	light yellow	granules/oil coated powder

### Dithiocarbamates

Product	Active Ingredient	Colour	Appearance
<b>ZDMC</b>	Zinc Dimethyldithiocarbamate	creamy-white	powder
<b>ZEPC</b>	Zinc ethylphenyl dithiocarbamate	white to yellowish	powder
<b>ZBEC</b>	Zinc dibenzyl dithiocarbamate	white	granules/oil coated powder
<b>ZDBC</b>	Zinc dibutyl dithiocarbamate	white	granules/oil coated powder
<b>ZDEC</b>	Zinc diethyl dithiocarbamate	white	granules/oil coated powder
<b>TDEC</b>	Tellurium diethyldithiocarbamate	orange and yellow	granules/oil coated powder

### Guanidines

Product	Active Ingredient	Colour	Appearance
<b>DPG</b>	Diphenylguanidine	off-white / greyish	granules/oil coated powder
<b>DOTG</b>	Di-o-tolyguanidine	off-white / greyish	granules/oil coated powder/powder

## Dithiophosphate

Product	Active Ingredient	Colour	Appearance
ZDTP	Zinc dialkyl dithiophosphate	yellowish	viscous liquid

## Thiurams

Product	Active Ingredient	Colour	Appearance
TBzTD	Tetrabenzylthiuram disulphide	white	granules/oil coated powder
TiBTD	Tetraisobutylthiuram disulphide	white	granules/oil coated powder
TMTM	Tetramethylthiuram monosulphide	yellow	granules/oil coated powder

## Thioureas

Product	Active Ingredient	Colour	Appearance
ETU	N-N'-Ethylenethiourea	white	granules/oil coated powder

## Pre-Vulcanization inhibitor / Retarder

Product	Active Ingredient	Colour	Appearance
CTPI/PVI/ CTP	N-cyclohexyl thiophthalimide	white	granules/oil coated powder/powder

## PTFE Micronized Powder

Product	Particle Size D50 (µm)	Surface Area (m <sup>2</sup> /g)	Bulk Density (g/l)	Melting Point (°C)	Main Applications
Polymist® F5 A R	4	3	400	325 ± 5	Elastomers, plastics, coatings, lubricants
Polymist® F5 A EX R	12	3	500	330 ± 5	Plastics
Polymist® F284 R	9	3	400	330 ± 5	Elastomers, plastics, coatings
Polymist® XPP 511 R	20	3	600	330 ± 5	Plastics
Polymist® XPP 552 R	3,3	3	400	325 ± 5	Coatings, inks
Algoflon® L 203 R	5	> 7,5	325	330 ± 5	Lubricants
Algoflon® L 206 R	5	> 7,5	325	330 ± 5	Elastomers, coatings

## Silicone Rubber

### Silicone Rubber HCR Bases

Product	Main features	Applications
<b>XIAMETER™RBB 2100 serie</b>	General Purpose Grades 20-80 Shore A Translucent Food status	Moulding, extrusion, calendering Any type of applications
<b>XIAMETER™RBB 2110 serie</b>	High Tear Resistance 30-70 Shore A Translucent Food status	Moulding, extrusion, calendering Any type of applications
<b>XIAMETER™RBB 2120 serie</b>	Very High Tear Resistance 55-70 Shore A Food status	Moulding, extrusion, calendering Any type of applications
<b>XIAMETER™RBB 2130 serie</b>	Non Post Cure Grades 40-80 Shore A Low Compression Set Food status	Moulding, extrusion, calendering Any type of applications Sealing, gasketing
<b>XIAMETER™RBB 2140 serie</b>	Wire and Cable Grades 40-50 Shore A	Cables extrusion
<b>XIAMETER™RBB 2060 serie</b>	Low Temperature Grades 40-50 Shore A	Moulding, extrusion, calendering Any type of applications
<b>XIAMETER™RBB 2150/70</b>	High Green Strength 70 Shore A	Extrusion, calendering Any type of applications

### Silicone Rubber HCR Compounds and FSR Compounds

Product	Main features	Applications
<b>SEMSIL HCR</b>	Full customisation of the compounds according to customers needs: mechanical properties food applications flame retardancy color preforming/packaging curing system: peroxide or platinum	Moulding, extrusion, calendering Any type of applications"
<b>SEMSIL FSR</b>	Full customisation of the compounds according to customers needs: mechanical properties food applications flame retardancy color preforming/packaging curing system: peroxide or platinum	Moulding, extrusion, calendering Any type of applications

## Silicone Rubber LSR

Product	Main features	Applications
<b>SILASTIC™ 9200 serie</b>	General Purpose Grades 20-70 Shore A Translucent Food status	Moulding Any type of applications
<b>SILASTIC™ 2004 serie</b>	General Purpose Grades Low compression set 20-75 Shore A Translucent Food status	Moulding Any type of applications gasketing/sealing
<b>SILASTIC™ 920X serie</b>	Oil Bleeding 20-50 Shore A 1 to 6 % oil content	Moulding weatherpack/connector seals
<b>LIVEO™ QP1 &amp; QP2</b>	20 -75 Shore A USP Class VI	Moulding Medical applications
<b>LIVEO™ C6</b>	30-70 Shore A USP Class VI Skin contact	Moulding Medical applications
<b>SILASTIC™ 9252 serie</b>	Coating/Sleeving Grade	Coating Sleeving
<b>SILASTIC™ HV 1551-55 LSR</b>	High Voltage	Moulding High Voltage Insulators
<b>SILASTIC™ 590</b>	Flame Resistance	Moulding Sleeving
<b>SILASTIC™ 1523-30</b>	Electrical Conductive Grade	Moulding Electrical applications
<b>SILASTIC™ NPC 9300-xx</b>	Non Post Cure LSR	Food and Infant Care Applications
<b>SILASTIC™ LTC 9400</b>	low temperature cure 40 & 50 shore	2K Moulding Co moulding temperature sensitive substrange
<b>SILASTIC™ 3D 3335</b>	50 shore fast prototyping comparable to injection-molded components	3D printing

## Silicone Rubber FSR Bases

Product	Main features	Applications
<b>SILASTIC™ LS-2840</b>	Standard Grade 40 Shore A	Moulding ,extrusion, calendering Oil and fuel resistance applications
<b>SILASTIC™ LS-2860</b>	Standard Grade 60 Shore A	Moulding ,extrusion, calendering Oil and fuel resistance applications
<b>SILASTIC™ LS 5-2040</b>	High mechanical properties 40 Shore A	Moulding ,extrusion, calendering Oil and fuel resistance applications
<b>SILASTIC™ LS 5-2060</b>	High mechanical properties 60 Shore A	Moulding ,extrusion, calendering Oil and fuel resistance applications
<b>SILASTIC™ LS 5-8740</b>	High mechanical properties 40 Shore A	Moulding ,extrusion, calendering Oil and fuel resistance applications
<b>SILASTIC™ LS 5-8760</b>	High mechanical properties 60 Shore A	Moulding ,extrusion, calendering Oil and fuel resistance applications
<b>SILASTIC™ LS 5-8720</b>	Low modulus 20 Shore A	Moulding ,extrusion, calendering Oil and fuel resistance applications
<b>SILASTIC™ LS 4-9040</b>	Low compression set 40 Shore A	Moulding ,extrusion, calendering Oil and fuel resistance applications
<b>SILASTIC™ LS 4-9060</b>	Low compression set 60 Shore A	Moulding ,extrusion, calendering Oil and fuel resistance applications
<b>SILASTIC™ LS 4-9080</b>	Low compression set 80 Shore A	Moulding ,extrusion, calendering Oil and fuel resistance applications
<b>SILASTIC™ LS-2940</b>	High Resilience/Rebound Very low compression set NPC Excellent Solvent / Fluid Resistance	Moulding applications Orings, diaphragms
<b>SILASTIC™ LS-2970</b>	High Resilience/Rebound Very low compression set NPC Excellent Solvent / Fluid Resistance	Moulding applications Orings, diaphragms
<b>SILASTIC™ LS-4940</b>	High heat stability up to 250°C Good acid gas resistance High Tear strength Low compression set	Designed for Turbocharger applications calendering and extrusion
<b>SILASTIC™ LS-4960</b>	High heat stability up to 250°C Good acid gas resistance High Tear strength Low compression set	Designed for Turbocharger applications calendering and extrusion

## Silicone Rubber F-LSR

Product	Main features	Applications
<b>SILASTIC™ FL 30-9201 LSR</b>	30 Shore A Fully (100 %) fluorinated Excellent resistance to fuels and oils Retain elasticity at low temperatures (Tg ~ -68°C)	Moulding Oil and fuel resistance applications
<b>SILASTIC™ FL 40-9201 LSR</b>	40 Shore A Fully (100 %) fluorinated Excellent resistance to fuels and oils Retain elasticity at low temperatures (Tg ~ -68°C)	Moulding Oil and fuel resistance applications
<b>SILASTIC™ FL 60-9201 LSR</b>	60 Shore A Fully (100 %) fluorinated Excellent resistance to fuels and oils Retain elasticity at low temperatures (Tg ~ -68°C)	Moulding Oil and fuel resistance applications

## Silicone RTV

Product	Main features	Applications
<b>XIAMETER™ RTV-3081 Curing Agent</b>	Curing Agent condensation cure	Mouldmaking
<b>XIAMETER™ RTV-3081-R Curing Agent</b>	Curing Agent condensation cure	Mouldmaking
<b>XIAMETER™ RTV-3081-F Curing Agent</b>	Curing Agent condensation cure	Mouldmaking
<b>XIAMETER™ RTV-3081-VF Curing Agent</b>	Curing Agent condensation cure	Mouldmaking
<b>XIAMETER™ RTV-3481 Base</b>	Base condensation cure	Mouldmaking
<b>XIAMETER™ RTV-3483 Base</b>	Base condensation cure	Mouldmaking
<b>XIAMETER™ RTV-3083 Curing Agent</b>	Curing Agent condensation cure	Mouldmaking
<b>XIAMETER™ RTV-3487 Base</b>	Base condensation cure	Mouldmaking
<b>XIAMETER™ RTV-3110 Base</b>	Base condensation cure	Mouldmaking
<b>XIAMETER™ RTV-3496 Base</b>	Base condensation cure	Mouldmaking
<b>XIAMETER™ RTV-3133 Base</b>	Base condensation cure	Mouldmaking
<b>XIAMETER™ RTV-3497 Base</b>	Base condensation cure	Mouldmaking
<b>XIAMETER™ RTV-3120 Base</b>	Base condensation cure	Mouldmaking
<b>XIAMETER™ RTV-3112 Base</b>	Base condensation cure	Mouldmaking
<b>XIAMETER™ RTV-4136-M kit</b>	Kit addition cure	Mouldmaking
<b>XIAMETER™ RTV-4131-P1 kit</b>	Kit addition cure	Mouldmaking
<b>XIAMETER™ RTV-4250-S kit</b>	Kit addition cure	Mouldmaking
<b>XIAMETER™ RTV-4251-S2 kit</b>	Kit addition cure	Mouldmaking
<b>XIAMETER™ RTV-4260-V kit</b>	Kit addition cure	Mouldmaking
<b>XIAMETER™ RTV-4234-T4 kit</b>	Kit addition cure	Mouldmaking



## Silicone Rubber Additives

Flame Retardants, Heat Stabilizer, Processing Aids

Product	Main features	Supplier
<b>TEGOSIL® Heatban 100</b>	Increase heat stability	EVONIK
<b>TEGOSIL® Heatban 110</b>	Increase heat stability	
<b>TEGOSIL® Heatban 200</b>	Increase heat stability	
<b>TEGOSIL® Heatban 400</b>	Increase heat stability LSR	
<b>TEGOSIL® FR 1000</b>	Flame retardant	
<b>TEGOSIL® HT 2000</b>	Heat transfer	
<b>TEGOSIL® HT 2100</b>	Heat transfer	
<b>XIAMETER™ RBM-9000</b>	Flame retardant	DOW
<b>XIAMETER™ RBM-9001</b>	anticreping agent	
<b>XIAMETER™ RBM-9002</b>	Increase heat stability	
<b>XIAMETER™ RBM-9003</b>	Increase green strength	
<b>XIAMETER™ RBM-9004</b>	Increase green strength	
<b>XIAMETER™ RBM-9005</b>	Flame retardant	
<b>XIAMETER™ RBM-9006</b>	Flame retardant	
<b>XIAMETER™ RBM-9007</b>	Improve filler loading	
<b>XIAMETER™ RBM-9008</b>	Acidic by products neutralizer	
<b>XIAMETER™ RBM-9010</b>	Mold release	
<b>XIAMETER™ RBM-2600</b>	Anti blooming Agent	

## Silicone Rubber Color Masterbatches

Product	Main features
<b>HCR</b>	Pigments dispersion in silicone polymer for solid silicone, HTV-HCR
<b>LSR</b>	Pigments dispersion in fluids and resins for liquid silicone, LSR-RTV

I have read the [privacy policy](#).

## Imprint

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