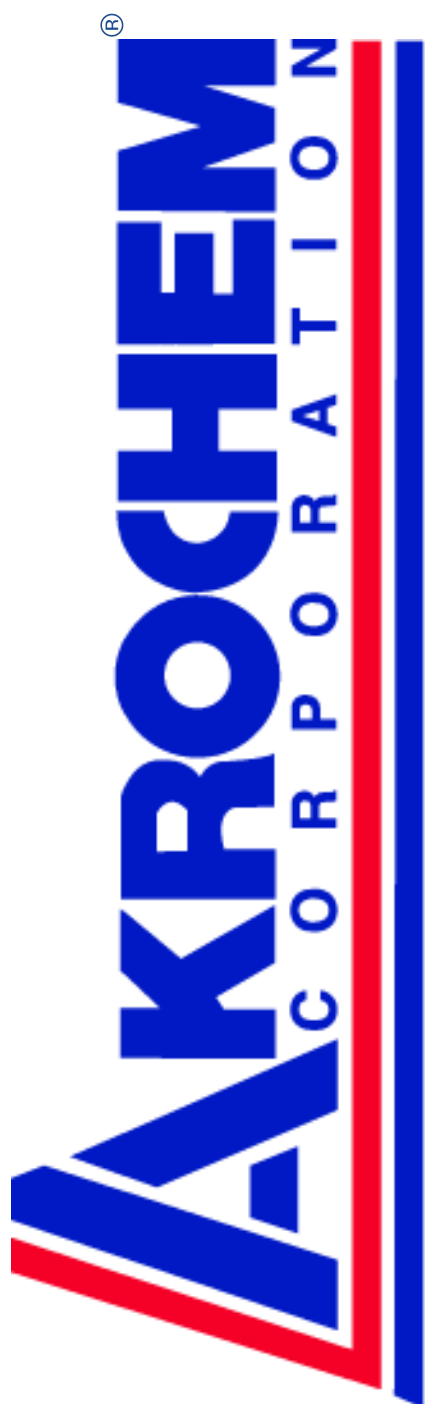


CHEMICAL	AKROSPERSE® (Slab) AKROFORM® (Pellet) MASTERBATCH	AKROCHEM CORPORATION	DUPONT LANXESS RHEIN CHEMIE	AKZO NOBEL FLEXSYS MONSANTO	CHEMTURA UNIROYAL	VANDERBILT
ALDEHYDE AMINES						
Aldehyde Amine		Accelerator 40B (liq.)	Vulkacit® 575	Accelerator 831	Beutene®	Vanax® 807
DITHIOCARBAMATES						
Zinc Dibutyl Dithiocarbamate	BZ-75/EPR; ZDBC-75	Accelerator BZ / BZX	Vulkacit® LDB	Perkacit® ZDBC	Butazate®	Butyl Zimate®
Zinc Diethyl Dithiocarbamate	EZ-75/EPR; ZDEC-75	Accelerator EZ / EZX	Vulkacit® LDA	Perkacit® ZDEC	Ethylzate®	Ethyl Zimate®
Zinc Dimethyl Dithiocarbamate	MZ-75/EPR; ZDMC-75	Accelerator MZ / MZX	Vulkacit® L	Perkacit® ZDMC	Methazate®	Methyl Zimate®
N,N Dimethyl Cyclohexyl Ammonium Dibutyl Dithiocarbamate		Accelerator CZ-1		RZ-100 (obs.)		
Bismuth Dimethyl Dithiocarbamate	BiDD PM-75	Bismet				Bismate®
Copper Dimethyl Dithiocarbamate	CuDD-75	CuDD				Methyl Cumate®
Zinc Dibenzyl Dithiocarbamate	ZBED PM-70	ZBED	Vulkacit® ZBEC	Perkacit® ZBEC	Arazate®	Benzyl Zimate®
Zinc Pentamethylene Dithiocarbamate		ZPD				
Tellurium Diethyl/Dithiocarbamate	TDEC-80/EPR	TDEC		Perkacit® TDEC		Tellurac®
Zinc Dibutyl Dithio/Dibutyl Amine Complex		ZDBCX				
2,2'-Dithiodi (ethylammonium)-bis(dibenzylthiocarbamate)	SAA-30 PM-50					
GUANIDINES						
Diphenyl Guanidine	DPG-75/EPR; DPG-80	DPG	Vulkacit® D	Perkacit® DPG		DPG
N,N' Di-O-Tolyguanidine	DOTG-75/EPR	DOTG				DOTG
SULFENAMIDES						
Benzothiazyl 1,2-Dicyclohexyl Sulfenamide		DCBS	Vulkacit® DZ	Santocure® DCBS		
N-Cyclohexyl Benzothiazole Sulfenamide	CBS-75	CBTS	Vulkacit® CZ	Santocure® CBS	Delac® S	Durax®
N-t-Butyl 2-Benzothiazole Sulfenamide	TBBS-75	BBTS	Vulkacit® NZ	Santocure® TBBS	Delac® NS	Vanax® NS
Thiocarbamyl Sulfenamide	OTOS-70	Cure-Rite® 18				Cure-Rite® 18
N-Oxydiethylene Benzothiazole Sulfenamide	MBS PM-75	OBTS	Vulkacit® MOZ	Santocure® MBS	Delac® MOR NOBS SP (obs.)	Amax®
90% N-Oxydiethylene Benzothiazole Sulfenamide/ 10% Benzothiazole Disulfide		OMTS	Vulkacit® MOZ-90 (obs.)	Santocure® MOR-90 (obs.)	NOBS #1 (obs.)	Amax® #1 (obs.)
THIAZOLES						
2-Mercaptobenzothiazole	MBT-75	MBT	Vulkacit® Merkapto	Perkacit® MBT	Naugex® MBT	Captax®
Benzothiazole Disulfide	MBTS-75	MBTS	Vulkacit® DM	Perkacit® MBTS	Naugex® MBTS	Altax®
Zinc Mercaptobenzothiazole	ZMBT-75	ZMBT	Vulkacit® ZM	Perkacit® ZMBT	OXAF	Zetax®
THIOUREAS						
N,N'-Diethyl Thiourea	DETU PM-75	DETU				Thiate® H
Ethylene Thiourea	ETU-22 PM-75		END-75 Rhenogran® ETU-75			
N,N'-Diphenylthiourea (Thiocarbaniide)	DPTU PM-75	Accelerator Thio #1	Stabilizer C / Rhenocure® CA	A-1 Thiocarb'de / Thiocarbaniide		
THIURAMS						
Dipentamethylene Thiuram Tetra/Hexasulfide	DPTT PM-70	DPTT	Tetrone® A	Perkacit® DPTT		Sulfads®
Tetraethyl Thiuram Disulfide	TETD PM-75	TETD		Perkacit® TETD	Ethyl Tuex®	Ethyl Tuads®
Tetramethyl/Ethyl Thiuram Disulfide		TM/ETD				Methyl/Ethyl Tuads®
Tetrabutyl Thiuram Disulfide		TBUT (liq.)				Butyl Tuads®
Tetramethyl Thiuram Disulfide	TMTD PM-75	TMTD	Vulkacit® Thiuram	Perkacit® TMTD	Tuex®	Methyl Tuads®
Tetramethyl Thiuram Monosulfide	TMTM PM-75	TMTM	Vulkacit® Thiuram MS	Perkacit® TMTM	Monex®	Unads®
Tetrabenzyl Thiuram Disulfide		TBzTD		Perkacit® TBzTD	Benzyl Tuex®	Benzyl Tuads®
N, N, N', N'-tetraisobutylthiuram disulfide		TIBT				Isobutyl Tuads®
SPECIALTIES						
4,4'-Dithiodimorpholine	DTDM PM-75	Accelerator R	Rhenocure® M	Sulfasan® DTDM	Naugex® SD-1	Vanax® A
Xanthogen Polysulfide	AS-100 PM-40	AS-100 (liq.)				
Mixture of ultra accelerators	Delta PM	Delta PM				
Zinc Dibutyl Phosphorodithioate	VS-50	Accelerator VS	Rhenocure® TP	Vocol® ZBPD	Royalac® 136A	
Zinc Iso-propylxanthate		ZIX				Propylzithate
PEPTIZERS						
2,2'-Dibenzoamido Diphenylsulfide	Peptizer 66-80/EPR	Peptizer 66, 4P	Renacit® 11			Pepton® 44 / 66 (Swan)
(1,3-Dimethylbutyl)-N'-Phenol-p- Quinone Diimine		Peptizer QDI		Q-Flex QDI		
Aryl Amine Hydrocarbon		Peptizer 9344				
Alkyl Sulfide Hydrocarbon		Peptizer 9349				
RETARDERS						
Modified Phthalic Anhydride		Retarder AK				Retarder PD (obs.) (Cyanamid)
Phthalic Anhydride	PX-75	Retarder PX	Vulkalent® B		Retarder ESEN	
Salicylic Acid		Retarder SA / SAX	Retarder W (obs.)			
Benzoic Acid		Retarder BA / BAX	Benzoic Acid K			
Aromatic Sulfonamide		Retarder SAFE	Vulkalent® E			
4,5-Methylbenzotriazole		Retrocure G	Vulkalent® TM			
N-(cyclohexylthio)phthalimide	CTP PM-75	Retarder CTP	Vulkalent® G	Santogard® PVI		Vantard
Proprietary		Retarder RSF				
	MASTERBATCH		ARKEMA	AKZO NOBEL	ARKEMA	VANDERBILT
PEROXIDES						
Di(2,4-Dichloro benzoyl) Peroxide		DDCBP-50	Luperox® CST	Perkadox PD-50S-ps-a	Link-Cup® DCLBP-5-Si	STI-T (DOW)
t-Butylperoxy Benzoate		TBPB	Luperox® P	Trigonox® C	Link-Cup® TBPB	Varox® TBPB
		TBPB-40		Trigonox® C-40-B-pd		
1,1-di(t-butylperoxy)-3,3,5-trimethyl-cyclohexane		TMC-40	Luperox® 231XL	Trigonox® 29-40B-pd	Link-Cup® TMCH 40	Varox® 231XL
Butyl-4,4-di(t-butylperoxy) Valerate		VAL-40C	Luperox® 230XL	Trigonox® 17/40pd	Link-Cup® NBV 40 L	Varox® 230XL
Dicumyl Peroxide	DC-40	DCP	Luperox® DC/SC	Perkadox BC	Di-Cup® R	Varox® DCP-R
		DC-40P	Luperox®	Perkadox	Di-Cup® 40C	Varox® DCP-40C
		DC-40K	Luperox®	Perkadox BC-40K	Di-Cup® 40KE	Varox® DCP-40KE
		DC-40S				
T-Butylperoxy-Diisopropyl Benzene	VC-40	VCP	Luperox® F/R	Perkadox 14-S F L	Vul-Cup® R	Varox® VC-R
		VC-40P		Perkadox 14-40B	Vul-Cup® 40C	
		VC-40K	Luperox® F-40KEP	Perkadox 14-40K	Vul-Cup® 40KE	Varox® 802-40KE
2,5-Dimethyl-2,5-Di(t-butylperoxy)Hexane		DDPH	Luperox® 101	Trigonox® 101	Link-Cup® DBPH	Varox® DBPH
		DDPH-50	Luperox® 101 XL	Trigonox® 101-45B-pd	Link-Cup® DBPH50C	Varox® DBPH-50
2,5-Dimethyl-2,5-Di(t-butylperoxy) Hexyne-3		2,5 Tri	Luperox® 130	Trigonox® 145-E85	Link-Cup® DYBP	Varox® 130 (obs.) = obsolete



Rubber Chemicals Competitive Cross Reference

Phenolics
Phenylene Diamines
Quinolines
Retarders
Specialty Accelerators
Sulfenamides
Thiazoles
Thioureas
Thiurams
Acetales
Aldehyde Amines
Amines
Benzimidazoles
Dithiocarbamates
Guanidines
Masterbatches
Peptizers
Peroxides



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Rubber Chemicals Competitive Cross Reference

CHEMICAL	AKROCHEM CORPORATION	LANXESS	FLEXSYS/HARWICK	CHEMTURA	VANDERBILT	MISC.
PHENOLICS						
2,6-Di-t-butyl-p-cresol	Antioxidant BHT	Vulkanox® KB		Naugard® BHT	Vanlube® PCX	
Butylated rxn product of p-cresol & dicyclopentadiene	Antioxidant 12				Vanox® L	Wingstay® L HLS (Eliokem)
Hindered Phenol	Antioxidant 32					
Hindered Phenol	Antioxidant 33					
Hindered Phenol	Antioxidant 43					
2,2'-methylene-bis-(4-methyl 6-t-butyl phenol)	Antioxidant 235	Vulkanox® BKF	Stangard® PC	2246 (Cytec)	Vanox® MBPC	CA05 (PMC)
2,5-di-tert-amyl hydroquinone	Antioxidant 250-SVA		Santovar® TAHQ Santovar® A (obs.)			
4,4'-thiobis (6-tert-butyl-m-cresol)	Antioxidant 358-SWC		Santonox TBMC Santowhite Crystals (obs.)			
4,4'-butylidenebis (6-tert-butyl-m-cresol)	Antioxidant 383-SWP		Santowhite BBMC Santowhite Powder (obs.)		Vanox® SWP	
Hindered Phenol	Antioxidant 1010			Naugard® 10		Irganox® 1010 (Ciba)
Hindered Phenol	Antioxidant 1024					Irganox® 1024 (Ciba)
Hindered Phenol	Antioxidant 1076			Naugard® 75		Irganox® 1076 (Ciba)
BENZIMIDAZOLES						
Zn Salt of 2-Mercapto 4 (5)-Methylbenzimidazole	Antioxidant 58	Vulkanox® ZMB-2			Vanox® ZMTI	
4/5-Methyl Mercapto Benzimidazole	Antioxidant 60	Vulkanox® MB-2			Vanox® MTI	
QUINOLINES						
2,2,4-Trimethyl-1,2-Hydroquinoline	Antioxidant DQ	Vulkanox® HS	Flectol® TMQ	Naugard® Q	Agerite® TMQ / Agerite® Resin	
PHOSPHITES						
Trisnonylphenyl Phosphite	Antioxidant TNPP-HP			Naugard® P		
AMINES						
Phenyl-A-Naphthylamine	Antioxidant PANA	Additin 30		Naugard® PANA		
Octylated Diphenylamine	Antioxidant S	Vulkanox® OCD	Stangard® ODP	Octamine®	Stalite® S	
4,4'-Bis(a,a'-dimethylbenzyl)diphenylamine)	Antioxidant 405			Naugard® 445	Vanox® CDP	Dusantox® 86 (Duslo)
PHENYLENE DIAMINES						
N-Isopropyl-N'-Phenyl-P'-Phenylene Diamine	Antiozonant PD-1	Vulkanox® 4010	Santoflex® IPPD	Flexzone® 3C	Vanox® 3C	
N-(1,3-Dimethyl Butyl)-N'-Phenyl-P-Phenylene Diamine	Antiozonant PD-2	Vulkanox® 4020	Santoflex® 6PPD	Flexzone® 7L	Antozite® 67	Wingstay® 300 (Eliokem)
Mixed Diaryl-P-Phenylene Diamine	Antiozonant MPD-100	Vulkanox® 3100		Novazone AS		Wingstay® 100 /AZ (Eliokem)
ACETALES						
Bis (1,2,3,6-Tetrahydro-benzaldehyde)-Pentaerythryl Acetate	Antiozonant 70 TBPA	Vulkanox® AFS		Durazone® 37		
OZONE INHIBITORS						
Nickel Dibutyl Dithiocarbamate	NiBud NiBud PM-70		Perkacit® NDBC	Naugard® NBC	Vanox® NBC	
						(obs.) = obsolete

10/2010

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