



General Products Listing

web: www.harwickstandard.com

phone: 330-798-9300

| Product Type | Product Trade Name | Producer/Supplier |
|----------------------------------|--|---|
| Accelerators | | |
| Dithiocarbamates | Accelerator: NDBC, ZBEC, ZDBC, ZDEC, ZDMC | Harwick Standard |
| Guanidines | Accelerator: DOTG, DPG | Harwick Standard |
| Thiadiazole | Echo A | Arkema, Inc. |
| Thiazoles | Accelerator: MBD, MBT, MBTS, ZMBT | Harwick Standard |
| Thioureas | Accelerator: DBTU, DETU, DPTU | Harwick Standard |
| Thiurams | Accelerator: DPTT, MET, TBzTD, TETD, TiBTD, TMTD, TMTM | Harwick Standard |
| Sulfenamides | Accelerator: CBS, MBS, TBBS | Harwick Standard |
| Sulfur Donor | Accelerator: DTDM | Harwick Standard |
| Anti-Foams | | |
| Silicone Anti-Foams | AF 9000, SAG 30 | Momentive Performance Materials |
| Antioxidants/Antiozonants | | |
| Alkylated Phenols/BIS-Phenols | Stangard® PC Wingstay®: L, S, T | Harwick Standard Eliokem, Inc. |
| Amino Phenol | Ethanox® 4703 | Albemarle Corporation |
| Diphenylamines | Stangard ODP Wingstay 29 | Harwick Standard Eliokem, Inc. |
| Paraphenylenediamines | Stangard: 6PPD, DTPD, IPPD | Harwick Standard |
| Phenolics | Ethanox: 310TF, 376, 4702 | Albemarle Corporation |
| Phosphite | Ethaphos® 368 | Albemarle Corporation |
| PVC Stabilizers | Micro-Chek® (Biocides): 11-DIDP, 11-IPA, 11-P Therm-Chek® (Mixed Metal Heat Stabilizer): Barium/Zinc Calcium/Zinc Based UV-Chek® (Ultra-Violet): AM-300, AM-340 | Ferro Corporation Ferro Corporation Ferro Corporation |
| Quinolines | Stangard: TMQ, TMQ-E; TMQ Powder | Harwick Standard |
| Specialty Type | Stangard 500 | Harwick Standard |

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|---|--|--|
| Antioxidants/Antiozonants (continued) | | |
| <u>UV Stabilizers</u> | | |
| <i>Benzophenones</i> | Stan-Light 531 | Harwick Standard |
| <i>Benzotriazoles</i> | Stan-Light P, 328, 5411/329 | Harwick Standard |
| <i>HALS (Hindered amine light stabilizer)</i> | Stan-Light 123, 770 | Harwick Standard |
| Anti-Scorch Agent | | |
| Specialty Types | Stangard: CTP, PA | Harwick Standard |
| Bonding Agents | | |
| Hexamethoxymethylmelamine | Resimene® 3520 Liquid and 3520 S-72 Powder | INEOS Melamines |
| Hexamethylenetetramine | HEXA Free-Flowing (Pulverized) | Hexion Specialty Chemicals |
| Casein | | |
| Caseins | Casein: 11, 12, 13 | Harwick Standard |
| Co-Curing Agents | | |
| Peroxide Cures | <u>Acrylates</u> : Natro-Cel® 519-A, Saret 521 DLC®-A | Natrochem, Inc. |
| | <u>Allylics</u> : TAC DLC-A, TAIC DLC-A | Natrochem, Inc. |
| | <u>Dimethacrylates</u> : SR-206 DLC-A | Natrochem, Inc. |
| | <u>Methacrylates</u> : Natro-Cel: 35-A | Natrochem, Inc. |
| | Saret: 500, 515 DLC-A, 517 DLC-A, 517 DLC-A-75 | |
| | <u>Trimellitates</u> : Natro-Cel TATM-A | Natrochem, Inc. |
| Coupling Agents | | |
| Liquid Organo Silanes | <u>Aminos</u> : Silquest®: A-1100, A-1120 | Momentive Performance Materials |
| | <u>Epoxy</u> : Silquest A-187 | Momentive Performance Materials |
| | <u>Mercaptos</u> : Silquest: A-189, A-1891; e-free 189™ Silane | Momentive Performance Materials |
| | <u>Methacryl</u> : Silquest A-174NT | Momentive Performance Materials |
| | <u>Vinyls</u> : Silquest: A-151NT, A-171, A-172NT, G-170, RC-1 | Momentive Performance Materials |
| | <u>Special</u> : NXT® Silane | Momentive Performance Materials |
| Dry Liquid Concentrates | <u>Aminos</u> : A-1100 DLC, A-1120 DLC | Natrochem, Inc. |
| | <u>Epoxy</u> : A-187 DLC | Natrochem, Inc. |
| | <u>Methacryl</u> : A-174 DLC | Natrochem, Inc. |
| | <u>Vinyls</u> : A-172 DLC, Sil 400 DLC | Natrochem, Inc. |
| | <u>Specials</u> : Sil NX DLC (Modified Mercapto); Sil EF 189 DLC (Ethanol Free A-189) | Natrochem, Inc. |
| Dry Silane Concentrates | <u>Mercaptos</u> : DSC: 18,18N | Excel Polymers, LLC Performance Additives Group |
| | <u>Polysulfides</u> : DSC: 2S, 4S | Excel Polymers, LLC Performance Additives Group |
| | <u>Vinyl</u> : DSC 74 | Excel Polymers, LLC Performance Additives Group |



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| Dry Liquid Concentrates | | |
| Hard-to Handle Liquids in Free-Flowing Powder Form | Calight RPO DLC-A, CI-10 DLC-A, CI-25 DLC-A, CI-50 DLC-A, DOP DLC-A, Natro-Cel 100N-A, Natro-Cel 1312-A, Natro-Cel PE-A, Petrolatum DLC-A, Petrolatum T DLC-A, Sunpar 2280 DLC-A, Tar-Cel®: 14, 20, 30, TEA DLC-A | Natrochem, Inc. |
| Fatty Acids | | |
| Stearic Acid | | Harwick Standard |
| <i>Tallow Based</i> | <u>Heat Stable, High Assay:</u> Stearic Acid F-300 <u>Technical Grades:</u> Stearic Acid: F-1000, F-1500 <u>General Purpose Rubber Grade:</u> F-2000 | |
| <i>Vegetable Based</i> | <u>General Purpose Rubber Grade:</u> F-2500 | |
| Fillers | | |
| Carbon Black - <i>Furnace Blacks</i> | <u>Very High Reinforcing:</u> N110, N121, N134 <u>High Reinforcing:</u> N220, N231, N234, N299 <u>Medium Reinforcing:</u> N326, N330, N339, N347, N351, N358 <u>Semi-Reinforcing:</u> N550, N650, N762, N772, N774 <u>Clean Semi-Reinforcing:</u> SR530, SR630, SR 730 <u>Specialty Grades; Inks, Coating & Plastic:</u> SR155, SR301, SR310, SR401, SR511 <u>Conductive:</u> Sidcon 159 | Sid Richardson Carbon Company |
| Clays - Hard (Air Floated) | Champion® and Natka® 1200 | Active Minerals Int'l LLC |
| Clays - Soft | GK 990, 995, 997 | M & M Clay |
| Clays -Hard (Kaolin) | <u>Calcined:</u> GK-IB, GK-IC, GK-300, GK-500 <u>Water-Washed:</u> GK-100, GK-170, GK-400 <u>Surfaced-Modified:</u> GK-KE (vinyl), GK-5178 (silicone), GK-2211 (amino) | M & M Clay M & M Clay M & M Clay |
| Coal - Ground | Austin Black® 325 | Coal Fillers, Inc. |
| Fine Cellulose Filler | Solka-Floc®: 20, 40, 40E, 100, 200, 300 | International Fiber |
| Mica - Dry Ground | <u>Muscovite:</u> 160D, 325D, 325 FF | IMERYS North America |

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| Fillers (continued) | | |
| Silica - Precipitated, Hydrated, Amorphous | <u>Highly Reinforcing Grades:</u> Hi-Sil™: 134G, 190G, 900, 915 | PPG Industries |
| | <u>Reinforcing Grades:</u> Hi-Sil: 210, 233, 243 LD | PPG Industries |
| | <u>Semi-Reinforcing Grades:</u> Hi-Sil 532 EP, Silene® 732 D | PPG Industries |
| | <u>Surface Treated Grade:</u> Agilon 400 Ciptane I (Hi-Sil 210-base) | PPG Industries |
| | <u>Amorphous Semi-Reinforcing Grade:</u> Silica S | Harwick Standard |
| Fire Retardants | | |
| Antimony Oxides | BrightSun™: HB, LB, UF | Minxia |
| Chlorinated Paraffins | Chloroflo® 42; | Dover Chemical |
| | Paroil®: 140, 142LV, 152, 170LV, 576 | Dover Chemical |
| | CPW-100 and CPW 100-HS Waxes | Harwick Standard |
| Fire-Resistant Hydraulic Fluid | Fyrquel® 220 | ICL Supresta |
| Magnesium Hydroxide | Magnesium Hydroxide | Harwick Standard |
| Pentaerythritol | PE-200 | Ashland Hercules Water Technologies |
| Phosphate Ester Plasticizers | <u>Aryls:</u> Lindol® TCP, Phosflex®: 41L, 71B | ICL Supresta |
| | <u>Alkylated Aryls:</u> Phoflex: 362, 370, 390 | ICL Supresta |
| | <u>Alkyl:</u> Phosflex T-BEP | ICL Supresta |
| Zinc Borates | Firebrake®: ZB, ZB Fine, ZB-XF, 415, 500 | Rio Tinto Minerals |
| Lubricants | | |
| Low Molecular Weight Olefin Waxes | <u>Coating Grades:</u> Epolene® C-10, C-13, C-15, C-16*, C-16P*, C-17, C-18* | Westlake Longview Corporation |
| | <u>Emulsifiable Grades:</u> Epolene: E-10, E-14*, E-14P*, E-16, E-20*, E-43, E-43P * = chemically modified P = Powder | Westlake Longview Corporation |
| | <u>Non-Emulsifiable Grades:</u> Epolene: N-10, N-10P, N-11, N-14, N-14P, N-15, N-15P, N-21, N-21P, N-34, N-34P P = Powder | Westlake Longview Corporation |
| | | |
| Low Molecular Weight Polyethylene Wax | Stan-Wax 1012 | Harwick Standard |
| Polyethylene Emulsion | PE-40 | Harwick Standard |
| PTFE Powders | Daikin PTFE L-5F, LF-100 | Daikin America |



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| Lubricants (continued) | | |
| Silicone Emulsions | <u>Std. Dimethyls:</u> SM-2128 (FDA), SM-2140 (Nonyl Phenol Free) SM-2162, SM-2163 | Momentive Performance Materials |
| | <u>Specialties:</u> SM-2059, SM-2068A | Momentive Performance Materials |
| Silicone Fluids | <u>Std. Dimethyls:</u> SF 96 (5-1000), Viscasil 5M-100M | Momentive Performance Materials |
| | <u>Specialties:</u> SF 69, SF 18-350 (FDA), SF-1023 (Silanol) | |
| | <u>Phenyl:</u> SF-1154 | Momentive Performance Materials |
| | <u>Alkyl:</u> SF-1147 | Momentive Performance Materials |
| Tire Lubricants | Lubrex® BTC 15 | Excel Polymers, LLC Performance Additives Group |
| | Silicone Emulsion 350 | Harwick Standard |
| Magnesium Oxides | | |
| | <u>Medium Surface Area Bar:</u> Stan-Mag Bars | Excel Polymers, LLC Performance Additives Group |
| | <u>Medium Surface Area Bead:</u> Stan-Mag Mini-Beads | |
| | <u>Combination Zinc Oxide/Magnesium Oxide:</u> Stan-Mag: 1326 HR, MBZ | |
| | <u>Low Surface Area Powder:</u> Stan-Mag 112 | |
| | <u>Medium Surface Area Powder:</u> Stan-Mag MLW | |
| | <u>High Surface Area Powders:</u> Stan-Mag: AG, DS2 | |
| Metallic Stearates | | |
| Metallic Stearates | <u>Aluminum:</u> 303 (distearate), 505 (monostearate), 404 (tristearate) | Ferro Corporation |
| | <u>Calcium:</u> 114-36, NF, Wettable (precipitated); 12B, 114-40, 15F (fused) | Ferro Corporation |
| | <u>Magnesium:</u> 90 | Ferro Corporation |
| | <u>Zinc:</u> 8, ACF, D, USP, Wettable (fused) | Ferro Corporation |
| | <u>Barium</u> | Ferro Corporation |
| | Potassium, Sodium Stearates | Harwick Standard |

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| Multifunctional Additives | | |
| Polyethylene Glycol | <u>Liquids</u> : Carbowax® PEG: 200, 300, 400, 600 | Dow Chemical |
| | <u>Semi-Solids</u> : Carbowax PEG: 540, 900, 1000, 1450 | Dow Chemical |
| | <u>Solids</u> : Carbowax PEG: 3350, 4600, 8000 | Dow Chemical |
| | <u>Specialty</u> : Sentry | Dow Chemical |
| Peroxides | | |
| Vulcanizers and Catalysts | <u>Diacyl</u> : Luperox® A-98 | Arkema, Inc. |
| | <u>Diacyl</u> : Noviper® DB50 | Novichem |
| | <u>Dialkyls</u> : Di-Cup®: R, 40C, 40KE, DC40P-SP2; | Arkema, Inc. |
| | Vul-Cup®: R, 40 KE, 40SI; | Arkema, Inc. |
| | Luperox: 101, 101XL-45, 130, F-40P-SP2 | Arkema, Inc. |
| | <u>Peroxyester</u> : Luperox P | Arkema, Inc. |
| <u>Peroxyketal</u> : Luperox 230, 230XL-40, 231, 231XL40 | Arkema, Inc. | |
| Pigments | | |
| Dry Pigments | Stan-Tone™: D and DC | Excel Polymers, LLC Performance Additives Group |
| | <u>Anatase and Rutile</u> : Tipaque® Titanium Dioxide <i>(Limited Regions Only)</i> | Ishihara Corp (USA) |
| | <u>Anatase</u> : Stan-Pig A-1 | Harwick Standard |
| Polymeric Pigment Dispersions | Stan-Tone EP, MB, MC | Excel Polymers, LLC Performance Additives Group |
| Plasticizers | | |
| Phthalates | Polycizer®: DBP, DIDP, DINP, DOP; Merrol® DAP | Harwick Standard |
| Phthalate Free | Polycizer DHIN | Harwick Standard |
| Sebacates | Polycizer: DBS, DOS | Harwick Standard |
| Adipates | Polycizer: DBEEA, DOA | Harwick Standard |
| | Merrol 4226 (DBEEA) | Harwick Standard |
| | Natro-Flex® BCA | Natrochem, Inc. |
| Polymeric | Admex®: 409, 523, 760, 761, 6985, 6995 | Genovique Specialties |
| Polymeric Polyester Adipates | Merrol P6320, P6410, P6420 | Harwick Standard |
| Pentaerythritol Esters | Hercoflex®: 600, 707, 707A | Ashland Hercules Water Tech |
| Oleates | Polycizer Butyl Oleate | Harwick Standard |
| Tallates | Natro-Flex IOT | Natrochem, Inc. |
| | Merrol 818T | Harwick Standard |
| Epoxides | Polycizer ESO; Merrol E-68 | Harwick Standard |



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Plasticizers (continued)

| | | |
|----------------------|---|-----------------------|
| Trimellitates | Polycizer: TOTM, TOTM-E, TINTM; Merrol 810TM-E | Harwick Standard |
| Pine Tar Derivatives | Tarene™: 14, 20, 30, 40 | Natrochem, Inc. |
| Specialties | Polycizer MO | Harwick Standard |
| | Plasticizer OLN, SC-E, SC-B | Harwick Standard |
| | Merrol DOZ-E, 3810 | Harwick Standard |
| Benzoates | Benzoflex® 9-88 | Genovique Specialties |
| Phosphate Esters | Lindol® | ICL Supresta |
| | Phosflex® 41L, 321, 362, 390, T-BEP | ICL Supresta |

Polymers/Elastomers

EPDM

| | | |
|------------------|--|----------------|
| Non-Oil Extended | <u>Copolymers</u> : Keltan®: 3200A, 740 | DSM Elastomers |
| | <u>Very Fast Curing</u> : Keltan: 512, 5508, 27, 7778Z, 520, 720Z, 312, 578Z, 6622-A | DSM Elastomers |
| | <u>Ultra Fast Curing</u> : Keltan: 2340A, 4703, 8340A, 8642A, 314, 4903 | DSM Elastomers |
| | <u>Very Low Mooney</u> : Keltan 1200-A | DSM Elastomers |
| Oil-Extended | Keltan: 4331A, 4551A, 5531A, 6251A, 6531A, 7341A | DSM Elastomers |

SBR

| | | |
|------------------------------------|---|----------------|
| Non Oil-Extended | Copo®: 1500, 1502, 1507 | Lion Copolymer |
| Oil-Extended | Copo: 1712, 1712C, 1712G, 1778 | Lion Copolymer |
| Black Masterbatch | Carbomix®: 1605, 1620 | Lion Copolymer |
| Black Masterbatch/ Oil-Extended | Carbomix: 1606, 1608, 1609, 1805, 1815, 1847, 1848, 3651 | Lion Copolymer |



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| Process Oils | | |
| Aromatic | Stan-Flux LV1 | Harwick Standard |
| Paraffinics | Stan-Lube: 10, 15, 60, 80 | Harwick Standard |
| Naphthenics | Stan-Plas: 47-A, 100/105, 150, 300, 500, 1200, 2000 | Harwick Standard |
| Naphthenic (FDA) | Stan-Plas 101C (178.3620 Part C) | Harwick Standard |
| White Oils (Tech Grade) | Stan-Lube: 6006, 6056 | Harwick Standard |
| White Oils (Food Grade) | Duoprime®: 90, 200, 350, 500 | Calumet/Penreco |
| Reodorants | | |
| Fragrances used in Rubber and Plastics | Stan-Mask: Baby Powder, Bubblegum, Cinnamon, Citrus, Floral, Peach, Sweet Strawberry, Vanilla, Wintergreen | Harwick Standard |
| Resins | | |
| Hydrocarbon Resins | <u>Aliphatic</u> : HC Resin C-5-95, HC Resin C-5-115, | Harwick Standard |
| | <u>Aromatic</u> : HC Resin C-9-95, HC Resin C-9-105 | Harwick Standard |
| Polyterpenes | Piccolyte®: A, C, and S Series | Pinova Inc. |
| Rosin Resins | Foral ®: 85, 105, AX, AX-A, NC; | Pinova Inc. |
| | Pentalyn®: 830, A, FC, G, H, X; | Pinova Inc. |
| | Staybelite®: A, Ester 3, Ester 3-A, Ester 5, Ester 5-A, Ester 10 | Pinova Inc. |
| Dark Hydrocarbon | Resinex® 100F | Harwick Standard |
| Coumarone Indenes | Natrorez®: 10, 25, 50D | Natrochem, Inc. |
| High Styrenes | Pliolite®: S6B, S6S | Eliokem, Inc. Inc. |
| Sulfur | | |
| Rubbermakers, Conditioned, and/or Oil Treated | <u>Untreated</u> : 104, 338(fine), 340(fine) <u>Oil Treated</u> : 209, 167 <u>Conditioned</u> : 296(fine-oil & mag carbonate), 793(fine-mag carbonate) | Harwick Standard |
| Insoluble Sulfur | Vulcanizing Agent IS-HS-7020 | Harwick Standard |

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| Vulcanized Oils | | |
| Vulcanized Oils | VVO®: Brown, White, Neophax | Excel Polymers, LLC Performance Additives Group |
| Zinc Oxide | | |
| Treated and Untreated Zinc Oxide | <u>Untreated - Low Surface Area:</u> Stan-Zinc®: 10, 20, 40, 50, | Harwick Standard |
| | <u>Untreated - High Surface Area:</u> Stan-Zinc 30 | Harwick Standard |
| | <u>Treated - Low Surface Area:</u> Stan-Zinc: 15, 25, 45 | Harwick Standard |
| | <u>Treated - High Surface Area:</u> Stan-Zinc 35 | Harwick Standard |
| | <u>USP - Low Surface Area:</u> Stan-Zinc USP | Harwick Standard |