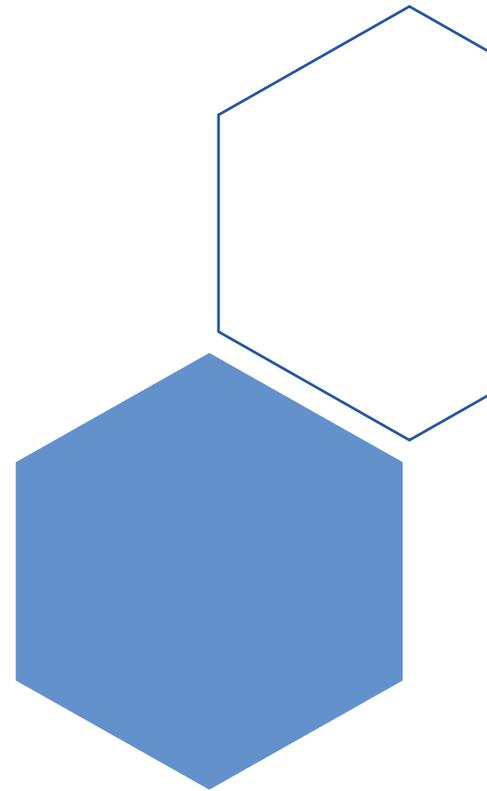


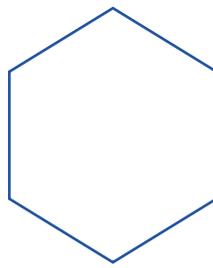


# nasika

*avanzare composites*



**High performance  
solutions for the  
rubber industry**



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# Our products

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**NASIKA grade:** Predispersed products are of the highest quality and are characterized by their **low viscosity** and the **high degree of filtration** to which they are subjected, specifically for soft rubbers.

**NASIKA L.E.:** Predispersed compounds formulated with natural plasticizers, recycled polymeric binders and a low-energy consumption manufacturing process.



**AKIMIX grade:** Predispersed products specially designed for hard rubber with reduced filtration process.

**NASIKA DB:** *Dry blend* products and chemical formulations for rubber.



**AKISAN line:** Consists of **accelerators** and other **minor additives** for the rubber industry, available in both **powder and oil powder formats**. These products are very useful for a wide range of applications

**AVANZARE advanced materials** is our line of high performance additives for the rubber industry. These products give special properties to the final rubber product.



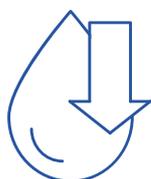
# Nasika polymer bounds



**NASIKA grade predispersed products are of the highest quality.**

They are characterized by their **low viscosity** and the **high degree of filtration** to which they are subjected. This level of filtration is tailored to the raw material to achieve better dispersion.

## ADVANTAGES



**Low viscosity**



**High filtration**



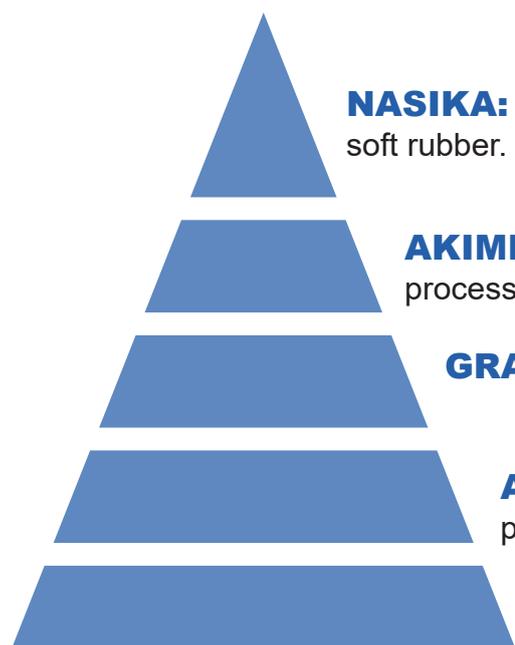
**Reduction of time during the mixing process**



**Increase in productivity**



**Safe handling for workers**



**NASIKA:** Predispersed - Low viscosity and high filtration process MB, soft rubber.

**AKIMIX:** Predispersed - For hard rubber and with low filtration process

**GRANULATED:** Dust reduction in the production process.

**AKISAN:** Moistened powder - Dust reduction in the production process.

**AKISAN:** Powder - General solution.



## List of pre-dispersed polymer-bound additives

### Rubber accelerators

	PRODUCT	CAS N°	CHEMICAL NAME	%	N.F.	FILTER SIZE (mm)
	Nasika CBS-75	95-33-0	BENZOTIAZIL-2-CYCLOHEXYL-SULFENAMIDE	75		0,167
	Nasika CBS-80	95-33-0	BENZOTIAZIL-2-CYCLOHEXYL-SULFENAMIDE	80		0,245
	Nasika CLD-75 (DTDC-75)	23847-08-7	1,1'-DITIOBIS[HEXAHI-DRO-1H-AZEPINA-2-ONA]	75		0.450
	Nasika DDTS-70 (MPTD-70)	53880-86-7	N, N'-DIMETHYLDIPHENILTHIURAM DISULPHIDE	70		0,450
	Nasika DOTG-70	97-39-2	1,3-DI-O-TOLYLGUANIDINE	70		0,450
	Nasika DPG-75	102-60-7	DIPHENYLGUANIDINE	75		0,245
	Nasika DPTT-70	971-15-3	DIPENTAMETHYLENETHIURAM TETRASULFID	70		0,245
	Nasika DPTU-75	102-08-9	1,3-DIPHENYL-2-THIOUREA	75		0,245
	Nasika DTMT-75 (TMTD-75)	137-26-8	TETRAMETHYLTHIURAM DI-SULPHIDE	75		0,245
	Nasika DTMT-80 (TMTD-80)	137-26-8	TETRAMETHYLTHIURAM DI-SULPHIDE	80		0245
	Nasika ETU-80	96-45-7	ETHYLENTHIOUREA	80		0,450
	Nasika HEXA-80	100-97-0	HEXAMETHYLENETETRAMINE	80		0,450
	Nasika MBT-75	149-30-4	2-MERCAPTOBENZOTHIAZOLE	75		0,167
	Nasika MBT-80	139-30-4	2-MERCAPTOBENZOTHIAZOLE	80		0,245
	Nasika MBTS-75	120-78-5	2,2'-DITHIOBIS (BENZOTHIAZOLE)	75		0,167

Nitrosamine free (N.F.) 

Tailor-made pre-dispersed combinations of multiple components and accelerators are available upon request.



## List of pre-dispersed polymer-bound additives

### Rubber accelerators

	PRODUCT	CAS N°	CHEMICAL NAME	%	N.F.	FILTER SIZE (mm)
	Nasika MBTS-80	120-78-5	2,2'-DITHIOBIS (BENZOTHAZOLE)	80		0,450
	Nasika NBR/ MBTS-75	120-78-5	2,2'-DITHIOBIS (BENZOTHAZOLE) – NBR BINDER	75		0,245
	Nasika NBR/ ZBEC-70	14726-55-1	ZINC DIBENZYLDITHIOCARBAMATE – NBR BINDER	70		0,245
	Nasika NDBC-75	13927-77-0	NICKEL DIBUTYLDITHIOCARBAMATE	75		0,450
	Nasika S80 HEXA	100-97-0	HEXAMETHYLENETETRAMINE – SBR BINDER	80		0,450
	Nasika TBBS-75	95-31-8	N-TERT-BUTYL-2-BENZOTHAZOLE-SULFENAMIDE	75		0,167
	Nasika TBBS-80	95-31-8	N-TERT-BUTYL-2-BENZOTHAZOLE-SULFENAMIDE	80		0,450
	Nasika TBzTD-70	10591-85-2	TETRABENZYLTHIURAM DISULFIDE	70		0,450
	Nasika TETD-70	137-26-8	TETRAETILTIURAM DISULFURO	70		0,450
	Nasika TiBTD-50	56-80-0	TETRA(ISOBUTYL)THIOPE-ROXYDICARBAMIC ACID	50		0,450
	Nasika TMTM-80	97-74-5	TETRAMETHYLTHIURAM MONOSULFIDE	80		0,245
	Nasika ZBEC-70	14726-36-4	ZINC DIBENZYLDITHIOCARBAMATE	70		0,141
	Nasika ZDBC-75	136-23-2	ZINC-DIBUTYLDITHIOCARBAMATE	75		0,245
	Nasika ZDEC-75	14324-55-1	ZINC-DIETHYLDITHIOCARBAMATE	75		0,245
	Nasika ZDMC-75	137-30-4	ZINC-DIMETHYLDITHIOCARBAMATE	75		0,245
	Nasika ZMBT-75	155-14-4	ZINC-2-MERCAPTOBENZOTHAZOLE	75		0,245

Nitrosamine free (N.F.) 

Tailor-made pre-dispersed combinations of multiple components and accelerators are available upon request.



## List of pre-dispersed polymer-bound additives

### Sulphur donors

	PRODUCT	CAS N°	CHEMICAL NAME	%	FILTER SIZE (mm)
	Nasika DTDM-75	13-34-4	4,4'-DITHIODIMORPHOLINE	75	0,245
	Nasika IS-60	7704-34-9	INSOLUBLE SULPHUR	60	0,450
	Nasika IS-65	7704-34-9	INSOLUBLE SULPHUR	65	0,450
	SULPHOGRAN S-80	7704-34-9	SULPHUR	80	0,450
	Nasika ZBPD-50	6990-43-8	ZINC O, O-DIBUTYLPHOSPHORODI-THIOATE	50	0,360
	Nasika ZDTP-50	85940-28-9	ZINC DIALKYLDITHIOPHOSPHATE	50	0,360

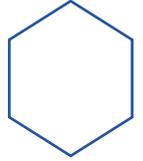
### Anti-scorching agents

	PRODUCT	CAS N°	CHEMICAL NAME	%	FILTER SIZE (mm)
	Nasika CTP-80 (PVI)	17796-82-6	N-(CYCLOHEXYLTHIO)PHTALIMIDE	75	0,450
	Nasika PTBS-80	2280-49-1	N-PHENYL-N-[(TRICHLOROMETHYL)THIO]BENZENESULPHONAMIDE	80	0,450

### Metallic oxides

	PRODUCT	CAS N°	CHEMICAL NAME	%	FILTER SIZE (mm)
	Nasika OZN-80	1314-13-2	ZINC OXIDE	80	0,450
	Nasika OZN ACTIVE-75	1314-13-2	ZINC OXIDE (ACTIVE)	75	0,167
	Nasika E80TiO2	13463-67-7	TITANIUM DIOXIDE	80	0,450

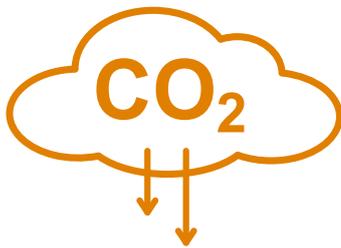
Tailor-made pre-dispersed combinations of multiple components and accelerators are available upon request.



# Nasika L.E. polymer bound

Driving towards sustainability

## #BuildingLowEmissions



As part of an improvement **plan committed to sustainability**, we have developed environmentally friendly polymer-bound dispersions that help to minimize our carbon footprint.

Additionally, we have successfully reduced **scope 1+2** emissions from 49% in 2022 to 55% in 2024.

### Features



Binder made from recycled polymer



58.9% less energy consumption during production



Made with natural plasticizers



Reduction of time during the mixing process



Safe handling for workers



## List of pre-dispersed polymer-bound additives

### Rubber accelerators

	PRODUCT	CAS N°	CHEMICAL NAME	%	N.F.
	Nasika L.E. CBS-80	95-33-0	BENZOTIAZIL-2-CYCLOHEXYLSULFENAMIDE	80	
	Nasika L.E. DPG-80	102-60-7	DIPHENYLGUANIDINE	80	
	Nasika L.E. DTDM-80	103-34-4	DITHIODIMORPHOLINE	80	
	Nasika L.E. MBT-80	149-30-4	2-MERCAPTOBENZOTHIAZOLE	80	
	Nasika L.E. MBTS-80	120-78-5	2,2'-DITHIOBIS (BENZOTHIAZOLE)	80	
	Nasika L.E. HEXA-80	100-97-0	HEXAMETHYLENETETRAMINE – SBR BINDER	80	
	Nasika L.E. ZBEC-80	14726-36-4	ZINC DIBENZYLDITHIOCARBAMATE	80	
	Nasika L.E. ZDBC-80	136-23-2	ZINC DIBUTYLDITHIOCARBAMATE	80	
	Nasika L.E. ZDEC-80	14324-55-1	ZINC-DIETHYLDITHIOCARBAMATE	80	
	Nasika L.E. TBBS-80	95-31-8	N-TERT-BUTYL-2-BENZOTHIAZOLESULFENAMIDE	80	
	Nasika L.E. ZDMC-80	137-30-4	ZINC-DIMETHYLDITHIOCARBAMATE	80	
	Nasika L.E. TBzTD-80	10581-85-2	TETRABENZYLTHIURAM DISULFIDE	80	
	Nasika L.E. TMTD-80	137-26-8	TETRAMETHYLIURAM DISULPHIDE	80	

### Metallic oxides

	PRODUCT	CAS N°	CHEMICAL NAME	%
	Nasika L.E. OZN-80	1314-13-2	ZINC OXIDE	80

Nitrosamine free (N.F.) 

Tailor-made pre-dispersed combinations of multiple components and accelerators are available upon request.



## Antioxidant

	PRODUCT	CAS N°	CHEMICAL NAME	%
	Nasika L.E. MMBI-80	53988-10-6	2-MERCAPTO-4(OR 5)-METHYL BENZIMIDAZOLE	80

## Sulphur donors

	PRODUCT	CAS N°	CHEMICAL NAME	%
	Nasika L.E. S-80	7704-34-9	SULPHUR	80
	Nasika L.E. IS-60	7704-34-9	INSOLUBLE SULPHUR	60

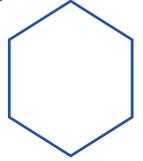
## Anti-scorching agents

	PRODUCT	CAS N°	CHEMICAL NAME	%
	Nasika L.E. CTP-80 (PVI)	17796-82-6	N-(CYCLOHEXYLTHIO) PHTALAMIDE	80

**Sustainability within your reach:  
Build with low emissions**

**#BuildingLowEmissions**

# Akimix polymer bounds



**AKIMIX grade predispersed products have excellent dispersion.**

AKIMIX grade polymer dispersions products specially designed for standard rubber applications.

## ADVANTAGES



Reduction of time during the mixing process



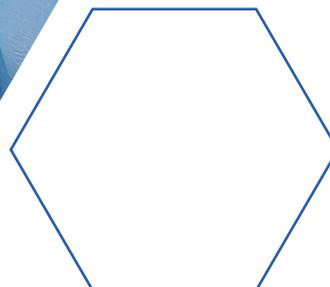
Increase in productivity



Safe handling for workers



**Chemical solutions  
for rubber.**





# List of pre-dispersed polymer-bound additives

## Rubber accelerators

	PRODUCT	CAS N°	CHEMICAL NAME	%	N.F.
	Akimix CBS-80	95-33-0	BENZOTIAZIL-2-CYCLOHEXYLSULFENAMIDE	80	
	Akimix MBT-80	149-30-4	2-MERCAPTOBENZOTHIAZOLE	80	
	Akimix MBTS-80	120-78-5	2,2'-DITHIOBIS (BENZOTHIAZOLE)	80	
	Akimix ZDBC-80	136-23-2	ZINC DIBUTYLDITHIOCARBAMATE	80	
	Akimix ZDMC-80	137-30-4	ZINC-DIMETHYLDITHIOCARBAMATE	80	
	Akimix TBzTD-80	10581-85-2	TETRABENZYLTHIURAM DISULFIDE	80	
	Akimix TMTD-80	137-26-8	TETRAMETHYLIURAM DISULPHIDE	80	
	Akimix ZBEC-80	14726-36-4	ZINC DIBENZYLDITHIOCARBAMATE	80	
	Akimix ZDEC-80	14324-55-1	ZINC DIETHYLDITHIOCARBAMATE	80	

## Metallic oxides

	PRODUCT	CAS N°	CHEMICAL NAME	%
	Akimix OZN-80	1314-13-2	ZINC OXIDE	80

## Antioxidant

	PRODUCT	CAS N°	CHEMICAL NAME	%
	Akimix MMBI-75	53988-10-6	2-MERCAPTO-4(OR 5)-METHYL BENZIMIDAZOLE	75

Nitrosamine free (N.F.)



Tailor-made pre-dispersed combinations of multiple components and accelerators are available upon request.



## Sulphur donors

	PRODUCT	CAS N°	CHEMICAL NAME	%
	Akimix S-80	7704-34-9	SULPHUR	80
	Akimix IS-60	7704-34-9	INSOLUBLE SULPHUR	60

## Anti-scorching agents

	PRODUCT	CAS N°	CHEMICAL NAME	%
	Akimix CTP-80 (PVI)	17796-82-6	N-(CYCLOHEXYLTHIO) PHTALAMIDE	80

## Blowing agents

	PRODUCT	CAS N°	CHEMICAL NAME	%
	Akimix AZO-80	123-77-3	Azodicarbonamide	80
	Akimix OBSH-80	80-51-3	4,4'-oxydi(benzenesulphonhydrazide)	80



Easy dosing &  
easy dispersion.

# Nasika DB



NASIKA DB are dry blends and chemical formulations for rubber.

## Co - activators

PRODUCT	FAMILY	DESCRIPTION	%	FORMAT	CHEMICAL NAME
Nasika DB ACTI 70	NASIKA DB ACTI	Different grades of TRIM to increase the cross linking density of cured rubber compounds.	70	Powder	TRIM (trimethylol propane trimethacrylate)
Nasika DB ACTI 50			50	Powder	TRIM (trimethylol propane trimethacrylate)
Nasika DB ACTI L			100	Liquid	TRIM (trimethylol propane trimethacrylate)
Nasika DB TAC 70	NASIKA DB TAC	TAC dispersion, able to improve the physical properties and temperature resistance in highly saturated rubbers as a coagent in polyolefins.	70	Powder	Triallyl cyanurate
Nasika DB TAC 50		It could be use to reduce the radiation crosslinkes as acting like photosensitizer.	50	Powder	Triallyl cyanurate
Nasika DB TAIC 70	NASIKA DB TAIC	TAC dispersion, able to improve the physical properties and temperature resistance in highly saturated rubbers acting as auxiliary curing agent (EPDM, FKM, CM).  Also is used as a coagent in crosslinked polyolefins and EVA.	70	Powder	Triallyl isocyanurate
Nasika DB TAIC 50			50	Powder	Triallyl isocyanurate

## Vulcanization activators

PRODUCT	FAMILY	DESCRIPTION	%	FORMAT	CHEMICAL NAME
Nasika DB TEA 50	NASIKA DB TEA	TEA acts as activator and co-accelerator of the sulphur vulcanization	50	Powder	Triethanolamine



# List of auxiliar additives

## Liquid polybutadiene

PRODUCT	FAMILY	DESCRIPTION	%	FORMAT	CHEMICAL NAME
Nasika DB PB12 50	NASIKA DB PB	Polybutadiene liquid has different uses in tires, sealants. Also as a coagent in EPDM (peroxide cured).	50	Powder	Polybutadiene 1,2
Nasika DB PB12			100	Liquid	Polybutadiene 1,2
Nasika DB PB14			100	Liquid	Polybutadiene 1,4
Nasika DB PB12 65			65	Powder	Polybutadiene 1,2

## Coupling agents

PRODUCT	FAMILY	DESCRIPTION	%	FORMAT	CHEMICAL NAME
Nasika DB SI69 70	NASIKA DB SI69	Different grades of Silane SI-69 to improvement the curing properties of the rubber and specific properties such tensile strength, rolling and abrasion resistance	70	Powder	SI-69 (Bis trimethoxy silyl propyl tetrasulfide)
Nasika DB SI69 50			50	Powder	SI-69 (Bis trimethoxy silyl propyl tetrasulfide)

## Anti-tack

PRODUCT	FAMILY	DESCRIPTION	%	FORMAT	CHEMICAL NAME
Nasika DB R01	Nasika DB RA	Anti-tack solution for rubber applications.	30	Liquid	Magnesium stearate
Nasika DB R02			45	Liquid	Zinc stearate
Nasika DB R03			45	Liquid	Calcium stearate

## Desiccants

PRODUCT	FAMILY	DESCRIPTION	FORMAT	CHEMICAL NAME
Nasika DB CaO 95	Nasika DB CaO	Mineral desiccant filled rubber compounds to avoid the increase of porosity due the moisture and the lack of properties in the final rubber part.	Powder	Calcium oxide
Nasika DB CaO 85			Coated powder	Calcium oxide



## Processing aids

PRODUCT	FAMILY	DESCRIPTION	FORMAT	COMPOSITION
Nasika DB DISPER 12	Nasika DB DISPER	It consists of dispersants that facilitate the mixing of additives in rubber	Liquid	Silicone mixture
Nasika DB DISPER1000 70			Powder	Silicone mixture

# Akisan Powder

## AKISAN accelerators products are the general solution.

The AKISAN line consists of **accelerators and other minor additives** for the rubber and plastic industry, available in both **powder** and **oil powder formats**. These products are very useful for a wide range of applications.



### AKISAN Powder Solution

General solution for the vulcanization.

### AKISAN Moistened Powder

Dust reduction in the production process.

## List of active additives

### Rubber accelerators

PRODUCT	CAS N°	CHEMICAL NAME	FORMAT	NITROSAMINE FREE
Akisan CBS	95-33-0	BENZOTIAZIL-2-CYCLOHEXYL-SULFENAMIDE	Powder	Yes
Akisan CLD/D TDC	23847-08-7	DITHIOCAPROLACTANE;1,1'-DITIOBIS[HEXAHIDRO-2H-AZEPIN-2-ONE]	Powder	
Akisan DDTS	53880-08-7	N, N' – DIMETHYLDIPHENILTHIURAM DISULPHIDE	Oil powder	
Akisan DOTG	97-39-2	1,3-DI-O-TOLYLGUANIDINE	Oil powder	Yes
Akisan DPG	102-06-7	DIPHENYLGUANIDINE	Powder	Yes
Denax DPG	102-06-7	DIPHENYLGUANIDINE	Powder	Yes
Akisan ETU	96-45-7	ETHYLENTHIOUREA	Oil powder	Yes
Akisan HEXA	100-97-0	HEXAMETHYLENETETRAMINE	Powder	
Akisan MBT	149-30-4	2-MERCAPTOBENZOTHIAZOLE	Oil powder	Yes
Akisan MBTS	120-78-5	2,2'-DITHIOBIS (BENZOTHIAZOLE)	Powder	Yes
Akisan MPTD	53880-86-7	N,N'-DIMETILDIFENILTIURAM DISULFURO	Powder	
Akisan TBBS	95-31-8	N-TERT-BUTYL-2-BENZOTHIAZOLESULFENAMIDE	Powder	Yes
Akisan TBzTD	137-26-8	TETRABENZYLTHIURAM DISULFIDE	Powder	Yes
Akisan TiBTD	56-80-0	TETRA(ISOBUTYL)THIOPEROXYDICARBAMIC ACID	Granulated	
Akisan TMTM	97-74-5	TETRAMETHYLTHIURAM MONOSULFIDE	Oil powder	
Akisan ZBEC	14726-36-4	ZINC DIBENZYLDITHIOCARBAMATE	Oil powder	Yes
Akisan ZBEC	14726-36-4	ZINC DIBENZYL DITHIOCARBAMATE	Powder	Yes
Akisan ZDBC	136-23-2	ZINC-DIBUTYLDITHIOCARBAMATE	Powder	
Akisan ZDBC	136-23-2	ZINC-DIBUTYLDITHIOCARBAMATE	Oil powder	
Akisan ZDEC	14324-55-1	ZINC-DIETHYLDITHIOCARBAMATE	Powder	

## List of active additives

### Sulphur donors

PRODUCT	CAS N°	CHEMICAL NAME	FORMAT
IS Diamond Sulf OT 20HS	7704-34-9	INSOLUBLE SULPHUR	Powder
SULPHUR 1	7704-34-9	SULPHUR	Powder
Akisan ZBPD	6990-43-8	ZINC O, O-DIBUTYLPHOSPHORODITHIOATE	Powder
Akisan ZDTP	85940-28-9	ZINC DIALKYLDITHIOPHOSPHATES	Powder

### Anti-scorching agents

PRODUCT	CAS N°	CHEMICAL NAME	FORMAT
Akisan CPT (PVI)	17796-82-6	N-(CYCLOHEXYLTHIO)PHTALIMIDE	Powder
Akisan PBTS	2280-49-1	N-PHENYL-N[(TRICHLOROMETHYL)THIO]BENZENESUL- PHONAMI	Powder

### Metallic oxides

PRODUCT	CAS N°	CHEMICAL NAME	FORMAT
Akisan ZNO	1314-13-2	ZINC OXIDE	Powder

## List of active additives

### Other additives

PRODUCT	USES	CAS N°
PEG-4000	Processing aid	25322-68-3
Stearic acid	Processing aid	57-11-4
Sb <sub>2</sub> O <sub>3</sub>	Flame retardant	1309-64-4
Zn Borate (ZN)	Flame retardant and smoke suppressor	1332-07-6
6PPD	Antioxidant	793-24-8
Akisan TMQ	Antioxidant	26780-96-1
Styrene-Indene Resin	Tactifying agent	
ZnO Active	Activator	1314-13-2
Paraffin wax	Processing aid	
Antiozonant waxes	Antiozonant	



# Our services

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## We offer different solutions for your industry.

Our expertise in the development, production, and commercialization of advanced functional materials enables us to offer additional services to optimize processes, improve efficiency, and drive innovation in your industry.

## Tailor-made formulations

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We offer rubber compounds formulated with all additives included, ready to be directly vulcanized. This solution eliminates the need for additional mixing processes, optimizing time and resources in your production.

## Pre-weighed

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Raw materials or additives pre-measured for subsequent processing, helping to optimize production and ensure accuracy in the quantities of ingredients.

## Laboratory testing services

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We offer custom testing and trial services for all types of building materials, from designing the testing plan to the complete product characterization.

### Laboratories

Acoustic | Thermal | Enclosures | Fire  
Materials | Biotechnology and Microbiology  
Tests mechanicals | Building | Metrology and  
Calibration



# Avanzare additives



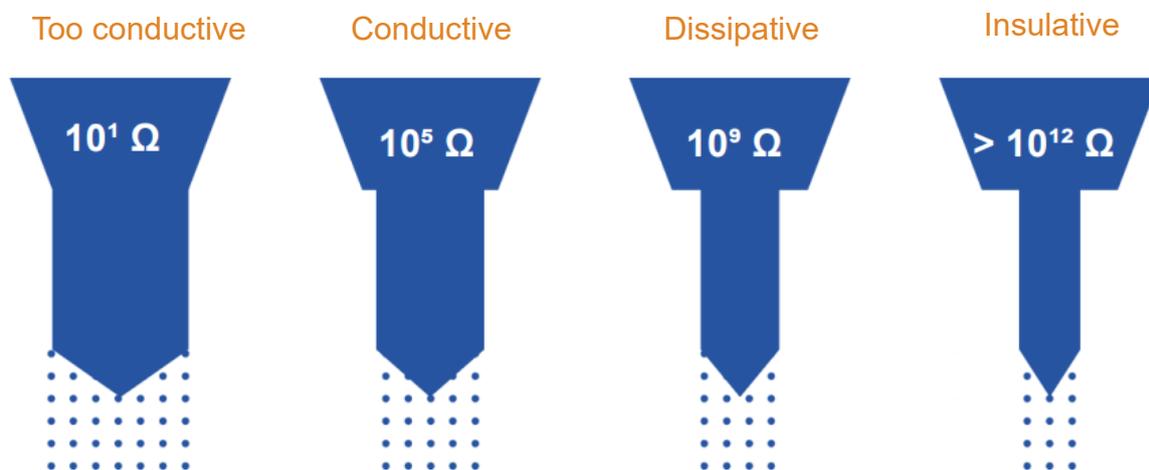
## Antistatic / ESD additives

### Antistatic line

Special additives to create permanent and colorable rubber solutions.

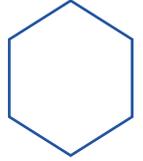
PRODUCT	NBR	SBR	EPDM	NR	IIR	CSM	phr	Format	Characteristics
avanSTATIC Rubber	■						1-5	Powder	$10^6 - 10^9 \Omega$
avanSTATIC Rubber MB	■						10-25	MB	$10^6 - 10^9 \Omega$
avanSTATIC SBR/EPDM		■	■	■	■		7-12	Powder	$10^7 - 10^9 \Omega$
avanSTATIC S45		■	■	■	■		6-14	Powder	$10^6 - 10^9 \Omega$
avanSTATIC 455 FDA	■	■	■	■	■		5-15	Powder	$10^7 - 10^9 \Omega$ (Food contact)
avanSTATIC PLAST	■	■		■	■	■	5-12	Liquid	$10^7 - 10^9 \Omega$
avanSTATIC NBR 535	■						2-8	Liquid	$10^6 - 10^9 \Omega$
avanSTATIC 1515		■	■	■			4-6	Liquid	$10^7 - 10^9 \Omega$

### Conductive floors versus static dissipative floor



# Avanzare additives

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## Magnetic Tracer (food application)

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### avanSAFE DETECTOR

Designed to impart detectability by metallic, magnetic or X-ray systems to rubber and other polymers. Specially designed to detect small pieces and rubber contamination in food production processes.

Colorable, FDA and EU regulation 10/2011.

### APPLICATIONS:

Buckets, Scraper, Shovels.

Ties, Pens, Card Holders.

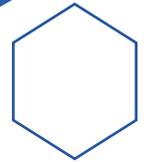
Conveyor belts.

Rubber gaskets.

Pipes.

Food contact elements.

# Avanzare additives



## Biocides

Our biocides prevent the accumulation and growth of bacteria, fungi and algae on the surface of rubber materials for a more hygienic environment.

According to the European directive n° 1048/2005 (13/June/2005) and directive (CE) n° 528/2012 regulating the applications of biocides in the industry.

PRODUCT	USES	FORMAT	%
avanZNO BAC	General biocide grade	Powder (white)	0.1 - 0.2
avanS-109	Food contact biocide grade	Powder (white)	0.5 - 0.8

**Prevent the accumulation  
and growth of bacteria,  
fungi & algae.**

# Avanzare additives



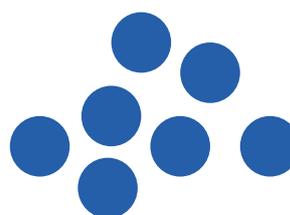
## Anti-blooming

### avanSTOP Blooming 64

A barrier-effect additive to prevent the leaching of plasticizers and other additives from the rubber surface.



Non-toxic additive



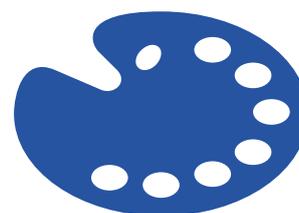
Powder



Reach compliance



Minimal impact over  
physical properties



Valid for any colour

# Avanzare additives



## Graphene / Electrical and thermal conductive solution

Conductive graphene-based materials provide both thermal and electrical conductivity within any polymer matrix.

### Electrical conductivity

Conductive graphene and graphene MB for high conductivity rubber application.

PRODUCT	USES	FORMAT	%
avanGRP 601	General use. Low dosage powder for electrical conductivity.	Powder (black)	8-12
avanGRP 700 MB	General use. Low dosage of MB for conductivity but not critical the mechanical properties.	Pellet (black)	25-40

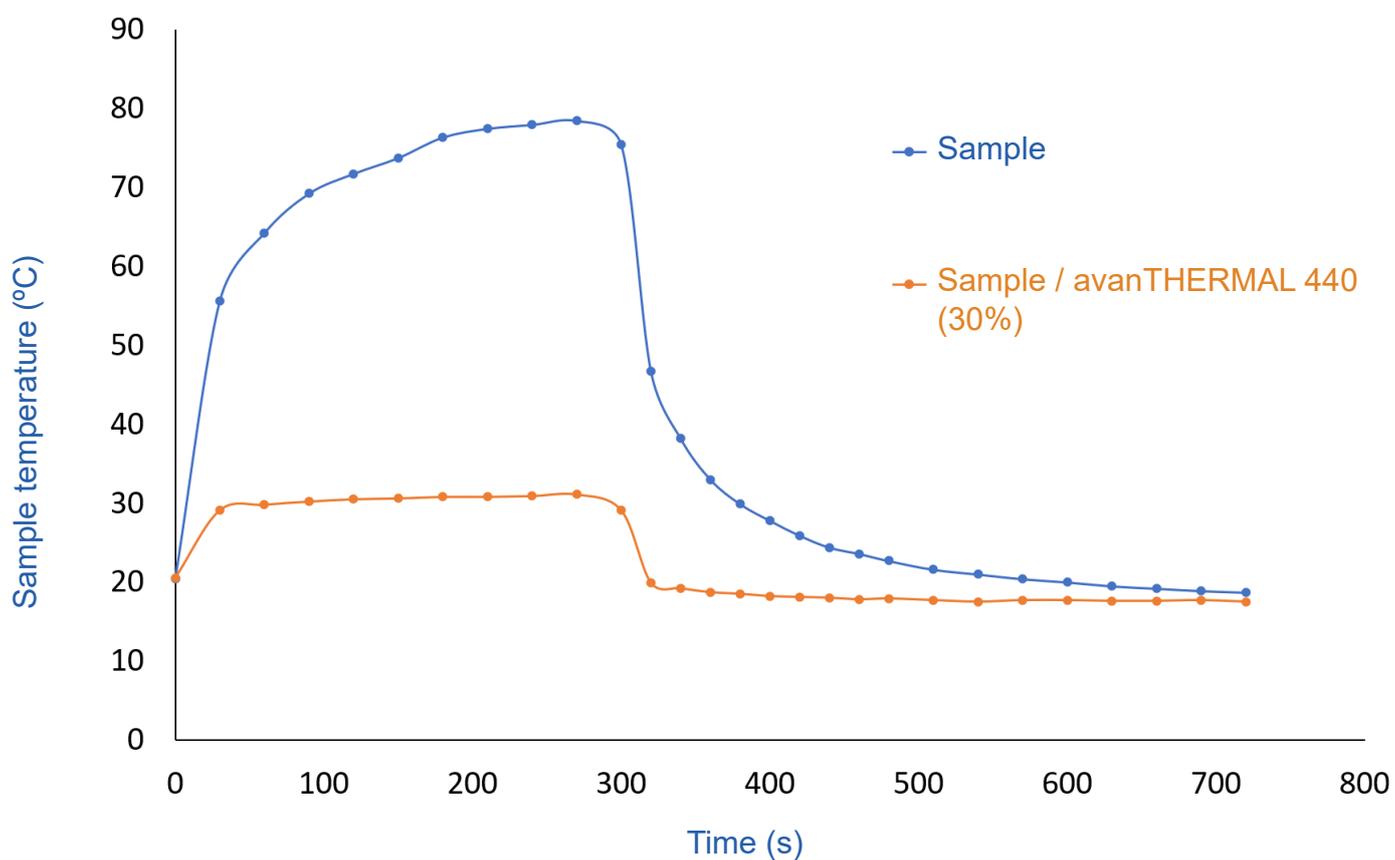
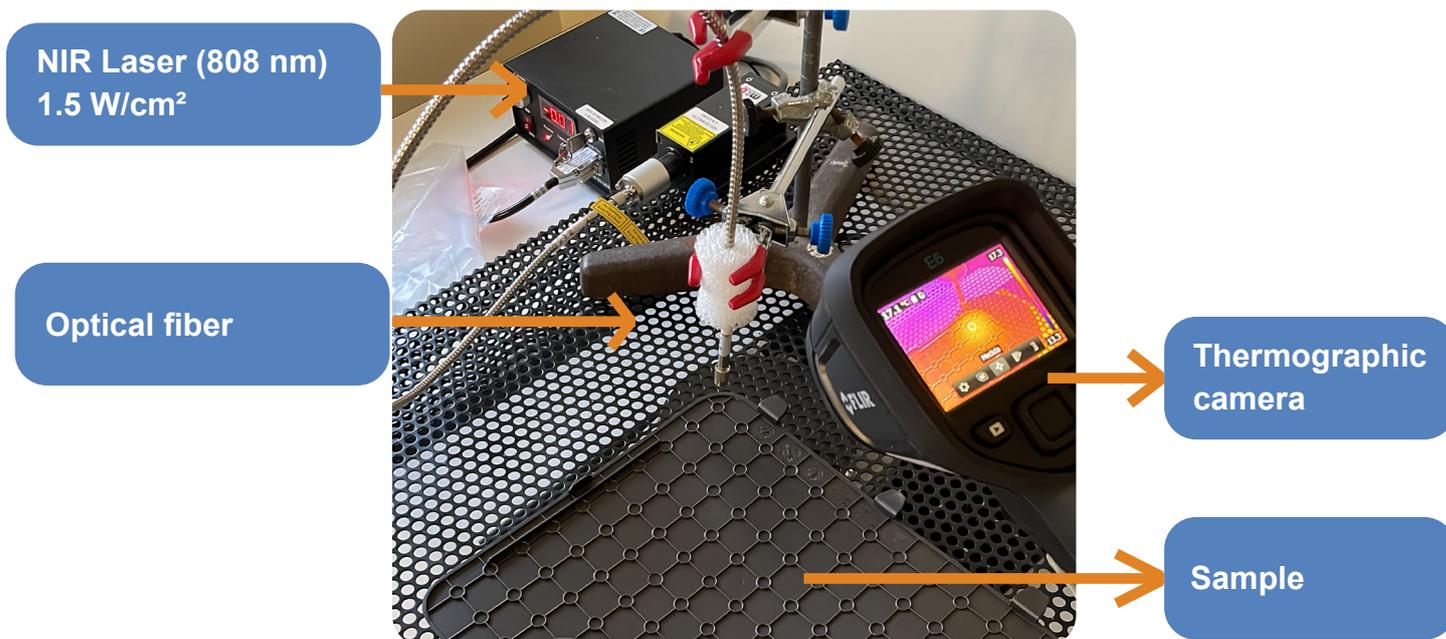
### Thermal conductivity

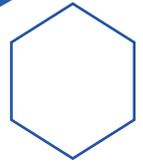
avanTHERMAL solutions are a series of very effective Graphene based additives, specifically designed to provide thermal conductivity in rubber and other matrices.

PRODUCT	USES	FORMAT	%
avanTHERMAL 440	General use. Low dosage powder for thermal conductivity	Powder (black)	8-xx
avanTHERMAL 440 MB	General use in MB format. Low dosage of MB for conductivity but not critical the mechanical properties	Pellet (black)	25-40



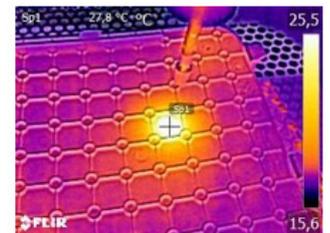
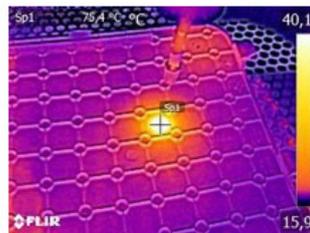
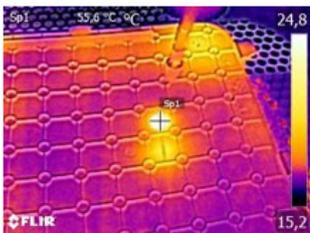
## Improving thermal dissipation using avanTHERMAL 440



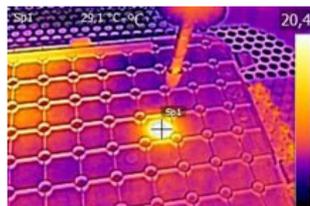


## Example

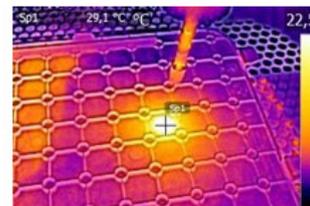
Without avanTHERMAL 440:



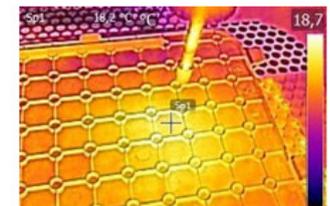
With avanTHERMAL 440:



T= 30 s



T= 300 s



T= 400 s

## Electric underfloor heating

**Rubber mat.:** A small voltage apply in the rubber mat. Produces a thermal system for thermal flooring.

Comfortable for flooring.

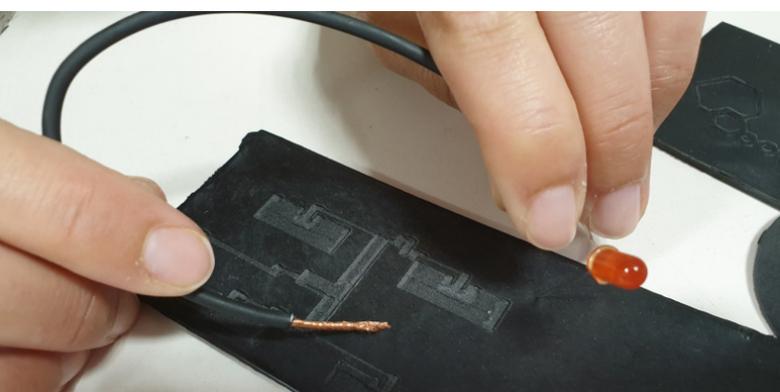


## Laser activation

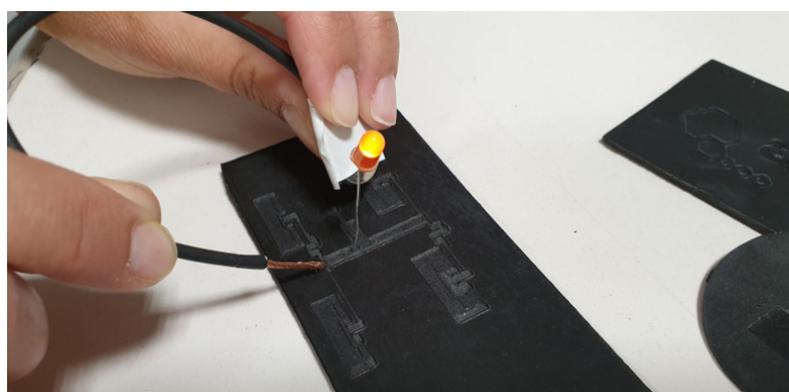
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Flexible and embedded electronics, injection insulation pieces, active by lasering, generating embedded inductive circuits.

**Applications:** Antennas, circuits, flexible electronics, embedded electronics...



Insulative



Conductor

## Flexible magnetic rubber profile

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Through the action of an electromagnet, the profile adheres to the door frame, closing the system hermetically.

# Elastika

The R&D Unit Specialized in Rubber

*By Avanzare*

At Avanzare Group, we have taken a firm and strategic step toward technological specialization with the creation of **Elastika by Avanzare**, a research, development, and innovation (R&D&I) unit exclusively focused on the rubber sector.



### Tailor-made product

We design specific solutions for each client and sector.



### Continuous improvement

We research, test and optimise to achieve the best result.



### Future vision

We research, test and optimise to achieve the best result.

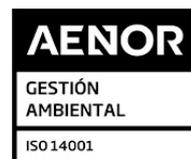




# **nasika** *avanzare composites*

We offer high-performance polymer-bound dispersions and other advanced materials.

Discover the  
Avanzare Group



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