

Woo Shin Chemical Co.,Ltd.



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*Connect the world
through chemical trade*



Woo Shin Chemical Co.,Ltd.

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I ntroduction

Established in Dec.1990, Woo Shin Chemical Co., Ltd is manufacturer of high-tech chemical products with production lines for such as;

- Various synthetic rubber FMB(Final Master Batch), which is basic material of rubber parts for Automobile, OA machinery and other industrial fields requiring high property rubber.
- Rubber Chemical Master Batch for high property elastomer production though improvement of dispersion efficiency and better working place condition.
- Anti-oxidant, which improves plastic heat-resistance to maintain appearance of plastic products and prevent aging.

Since its foundation, Woo Shin Chemical Co.,Ltd. has shown steady growth. We have obtained prosperous results such as awarding "certification of exporting commendation" from the Minister of Industry & Energy on the 35th Trade Day in 1998, the hard IMF economy crisis period, and acquiring our own main office and factory in 1999.

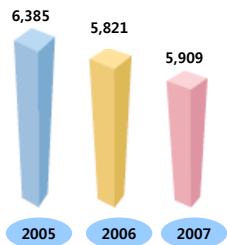
Authorized as "R&D center operating company" from KITA (Korea Industrial Technology Association) Mar. 2000, we are continuously investing on R&D for a better future. With the efforts, we were appointed as a "Promising small and medium business" by the Small & Medium Business Promoting Corporation. Now we are focusing on overseas market with the balance of domestic ones.

In addition, we were appointed as specialized "Material, parts enterprise" from Minister of Industry & Energy Feb.2002 and "Promising minor enterprise for the export industry" by the Incheon Small & Medium Business Exporting Promoting Center in July 2002.

We will make every effort consistently in order to be the specialized chemical manufacturer, delivering high-level satisfaction to our customers.

C ompany Information

□ Recent Sales for 3 years
(Monetary unit: one million won)



- **Company** : Woo Shin Chemical Co.,Ltd.
- **President** : Mr. Joon-Ku, Park,
- **Capital** : KRW35,408,000
- **Date of Establishment** : 18th December 1990
- **Employees** : 17
- Address** : Poseung National industrial Complex
679-20 Naegi-ri Poseung-eup Pyeongtaek-si
Gyeonggi-do 451-764 Korea
- **Tel** : +82-31-686-6103
- **Fax** : +82-31-686-6109



NEWMIX®



For a better working environment

NEWMIX®, the rubber chemical master-batch, has no scattering in air during mixing or measuring.

- Reduces harm toward the operator
- Maintaining a hygienic working place
- Less harmful residues on packing materials

For total cost saving

NEWMIX® can be mixed faster than normal powder or pellet type rubber chemicals. Hence, it reduces roll-mixing time of rubber chemicals such as vulcanizing agent.

- Increases productivity per hour
- Cost-efficient due to less scattering
- Easy to clean facilities

For higher quality

Rubber chemicals are equally dispersed to the binder of polymer. Hence **NEWMIX®** has great dispersion efficiency.

- Decreases the number of inferior product caused by poor dispersion.
- Operator can measure the input exactly to produce stable products in quality, since it's not scattered.
- **NEWMIX®**'s High dispersion efficiency doesn't require an expert on roll operation.
- **NEWMIX®** can be stored for long time without deteriorating property of it.

Vulcanization Accelerators

Chemical group	Item	Grade	Type		Specific gravity	
			Pellet	Sheet		
Thiazole Group	M(MBT)	NEMIX M-75E	P	S	1.25	
	DM(MBTS)	NEWMIX DM-70E NEWMIX DM-75E	P	S	1.20 1.30	
Sulfenamide Group	CZ(CBS)	NEWMIX CZ-75E NEWMIX CZ-75N NEWMIX CZ-80E NEWMIX CZ-50NBR NEWMIX CZ-80NBR	P	S	1.07 1.16 1.12 1.01 1.14	
		NS(TBBS)	NEWMIX NS-50S	P	S	1.05
		NBS	NEWMIX NBS-75E NEWMIX NBS-75N	P	S	1.14 1.16
Thiourea Group		#22(ETU)	NEWMIX 22-80E NEWMIX 22-75E	P	S	1.20 1.14
Thiuram Group	TS(TMTM)	NEWMIX TS-75E	P	S	1.21	
	TT(TMTD)	NEWMIX TT-70E NEWMIX TT-75E NEWMIX TT-75N NEWMIX TT-50NBR NEWMIX TT-80NBR	P	S	1.18 1.20 1.24 1.13 1.24	
		TRA(DPTT)	NEWMIX TRA-75E NEWMIX TRA-70E	P	S	1.20 1.19
		Dithiocarbamate Group	BZ(ZnBDC)	NEWMIX BZ-75E NEWMIX BZ-80E	P	
EZ(ZnEDC)			NEWMIX EZ-75E	P	S	1.26
TDEC(TLPT)	NEWMIX TDEC-75E		P	S	1.20	
Other	DPG	NEWMIX D-75E NEWMIX D-75N	P	S	1.08 1.07	

Vulcanization Agents

Sulfur	Sulfur	NEWMIX S-80E NEWMIX S-80N NEWMIX S-80NBR	P	S	1.58 1.57 1.69
	Insoluble sulfur	NEWMIX IS-80E NEWMIX IS-80N	P	S	1.35 1.34
Sulfur donor	R(DTDM)	NEWMIX R-75E	P	S	1.12
Resin vulcanizer	Alkyl phenol resin	NEWMIX T-401	P	S	1.14
Peroxide	Dicumyl Peroxide	NEWMIX DCP-40E	P	S	1.20

Vulcanizing Activators

Zinc Oxide	ZnO#1	NEWMIX ZnO-80E	P	S	2.65
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Blowing Agents / Promoters

Azodicarbonamide		NEWMIX A1-75E NEWMIX A2-75E	P	S	1.32 1.34
	Benzene sulfonyl hydrazide	OBSH	NEWMIX OBSH-75E	P	S
Surface treated urea		NEWMIX C-75E	P	S	1.16

Others

Resocinol		NEWMIX RESO-80S	P	S	1.12
Hexamethylenetetramine		NEWMIX HEXA-80S	P	S	1.15
*Mixture of Accelerators		OEM			

NEWLIZER®, a stabilizer for synthetic resins, prevents oxidization during copolymerization of ABS manufacturing process. Through salting out process, drying process, compounding process, NEWLIZER prevents oxidization caused by heat to ABS powder and provides high property.

An Anti-oxidant prevents aging by heat, ozone, light to prolong product's lifetime. It applies to mostly ABS, PE, PP, and PS, which have easily oxidative characteristic in their structure. ABS and Impact-Modified Polystyrene (PS) have easily oxidative unsaturated double bond. PP and PE have easily oxidative tertiary hydrogen in polymer.

- 1st step anti-oxidation: Prevents radical chain reaction
 - captures the radical and delaying the process of radical chain reaction
- 2nd step anti-oxidation: dissolving peroxide
 - dissolve not to produce hydro peroxide radical

NEWLIZER® is complex anti-oxidant optimizing 1st and 2nd steps of anti-oxidation.

Woo Shin Chemical Co., Ltd. has introduced and distributed "Fluoroelastomer" to basic material of rubber parts for Automobile, Semiconductor, Food and other Industrial fields requiring heat-resistance and solvent-resistance, for several years.

With our deep know-how and experience in fluoroelastomer field, we manufacture best fluoroelastomer compounding production satisfying customers.

FEATURE	ITEM
Excellent mold flow and property	FL2160MX FL2170MX FL2180MX
Excellent heat-resistance and compression set	FL2260MX FL2270MX FL2280MX
Excellent oil-resistance and solvent-resistance	FL3160MX FL3170MX FL3180MX
Excellent chemical-resistance	FP3160MX FP3170MX FP3180MX
Color Compound	FL2170MW FL2170MR FL2260MW FL2270MB FL2270MBL FL2270MG FL2270MW FL3170MB FP3170MBL FL2280MG

In addition, we provide customized products meeting customer's specific needs.

