

Technofinechem Co., Ltd.
TFC Co., Ltd.

Introduction

Technology develops Fine Chemical

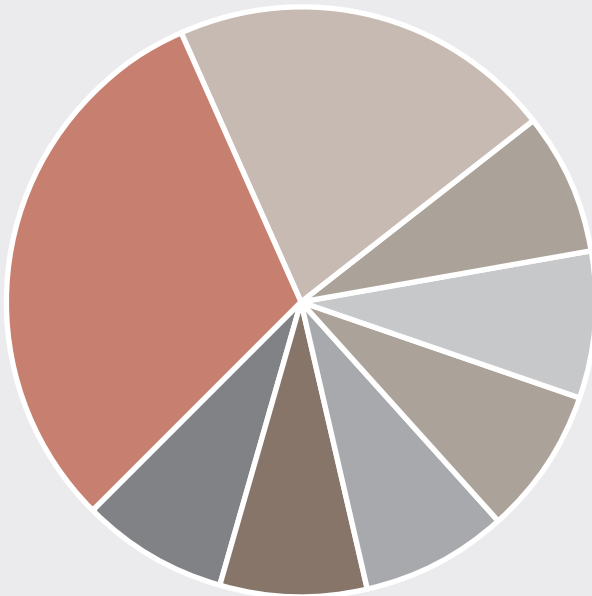
Founded in 2003, as an outsourcing provider of engineering plastics additives, Technofinechem Co., Ltd. is a leading manufacturer of formulated chemical additive/ foaming agents with years of technical expertise. From 2009, Technofinechem Co., Ltd. began to manufacture its own customized Azodicarbonamide chemical foaming agents for local and international plastics processors suiting to customers' increasing demands and expectations. Main products include blowing agent, flame retardant, electronic chemical, and API intermediate.

As a leading company of fast-changing chemical materials, we are devoting significant time and resources to developing new products that meet customers need and look forward to have chance to serve your new chemical materials business.

Thank you very much.

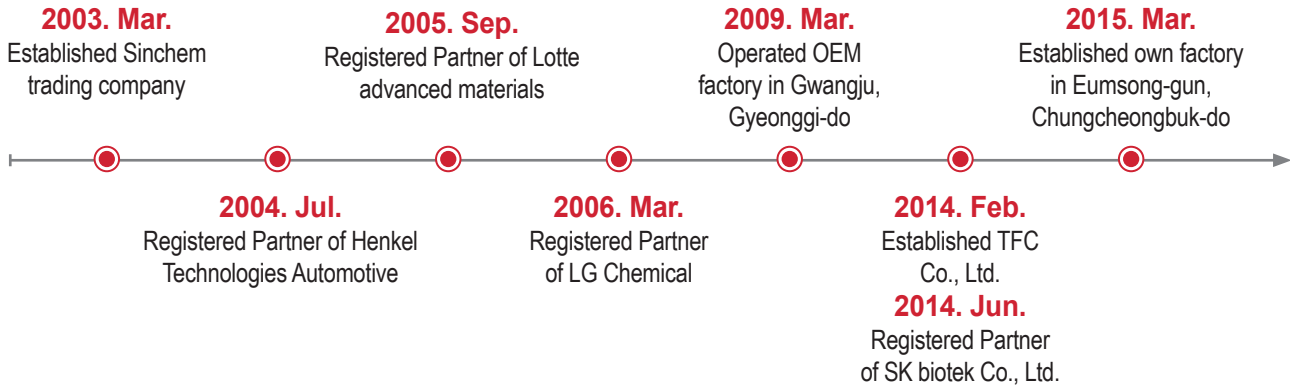
President **Park Wan Su**

Items



- 발포제 (Blowing agent)
- 난연제 (Flame retardant)
- 2차бат데리 중간체 (2nd battery intermediate)
- 광개시제 (Photoinitiator)
- 전자재료 (Electrochemical)
- 촉매제 (Catalyst)
- 실리콘비드 (Silicon bead)
- 의약품중간체 (Pharm intermediate)

History



Location

Head Office

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Production Location

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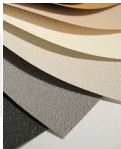








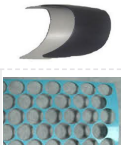

Product

Foaming Agent

Chemical Description	Appearance	Decomposition temp.(°C)	Gas volume ml/g(STP)	Gas volume ml/g(IN AIR)	Particle Size(um)	Application	IMAGE
Azodicarbonamide	Orange yellow fine powder	200-210	215-225	290-300	3~22	PVC,PE,EVA, RUBBER ETC	
TFC-AZP1619	Orange yellow fine powder	200-210	215-225	290-300	15~20	PVC,PE,EVA, RUBBER ETC	
TFC-AZP1012	Orange yellow fine powder	200-210	215-225	290-300	10~14	PVC,PE,EVA, RUBBER ETC	
TFC-AZP0810	Orange yellow fine powder	200-210	215-225	290-300	9~11	PVC,PE,EVA, RUBBER ETC	
TFC-AZP0607	Orange yellow fine powder	200-210	215-225	290-300	6~9	PVC,PE,EVA, RUBBER ETC	
TFC-AZP0305	Orange yellow fine powder	200-210	215-225	290-300	3~6	PVC,PE,EVA, RUBBER ETC	
Modified Azodicarbonamide	Orange yellow fine powder	185-200	210-230	280-290	18-20	Chemical cross-linked polyethylene foams	
TFC-ACPE	Orange yellow fine powder	193-197	210-230	280-290	18-20	Chemical cross-linked polyethylene foams	
TFC-ACPE(H)	Orange yellow fine powder	195-200	210-230	280-290	18-20	Chemical cross-linked polyethylene foams	
TFC-ACPE(HQ)	Orange yellow fine powder	175-180	174-188	260-270	18-20	Chemical cross-linked polyethylene foams	
N,N'-Dinitrosopentamethylenetetraamine	Pale yellow fine powder	167-171	191-200	210-220		Rubber foams	
DNPT, DPT 80%							
Surface Treated Urea HHBK	Light White fine powder	110-115(M.P)	-	-	10~15	Activator of DNPT(DPT)	
Modified DPT AND HHBK	Light Yellow fine powder	130-170	130-150	-	8~10	EVA,Rubber foams	
TFC-ERB200	Light Yellow fine powder	133-137	135-145	-	8~10	EVA,Rubber foams	
TFC-ERB300	Light Yellow fine powder	145-150	135-145	-	8~10	EVA,Rubber foams	
TFC-ME6000	Light Yellow fine powder	135-145	140-145	165-175	8~10	EVA,Rubber foams	
TFC-ME6001	Light Yellow fine powder	150-160	130-145	165-175	8~10	EVA,Rubber foams	

Foaming Agent

Chemical Description	Appearance	Decomposition temp.(°C)	Gas volume ml/g(STP)	Gas volume ml/g(INAIR)	Particle Size(um)	Application	IMAGE
4,4'-Oxybis(benzene sulfonyl hydrazide)	White fine powder	158-164	125-140		6~10	PVC wall paper or CR Rubber etc.	
OBSH							
Modified OBSH AND Azodicarbonamide	Light Yellow fine powder	140-170	180-210		3~5	PVC wall paper	
TFC-W1039	Light Yellow fine powder	140-148	190-198		3~5	PVC wall paper	
TFC-W1017	Light Yellow fine powder	140-146	190-198		3~5	PVC wall paper	
TFC-W1011	Light Yellow fine powder	150-158	190-195		3~5	PVC wall paper	
TFC-W1015	Light Yellow fine powder	160-168	198-200		3~5	PVC wall paper	
TFC-W1016	Light Yellow fine powder	160-165	198-200		3~5	PVC wall paper	
TFC-W1013	Light Yellow fine powder	150-155	195-195		3~5	PVC wall paper	
TFC-W020	Light Yellow fine powder	148-155	180-190		3~5	PVC wall paper	

P-Toluenesulfonyl hydrazide(TSH)	White fine powder	100-110(M.P)	120-130		-	PVC wall paper, Rubber foams	
P-Toluenesulfonyl semicarbazide(PTSS)	White fine powder	227-235	135-145		-	PVC wall paper, PVC extrusion	
Sodium Bicarbonate (Inorganic foaming agent)	White fine powder	150~200	110-150		200 mesh pass	PE(LDPE,HDPE),PP, PS(GPPS,HIPS) etc.	
TFC-PY600	White fine powder	150~200	135-140		200 mesh pass	PE(LDPE,HDPE),PP, PS(GPPS,HIPS) etc.	
TFC-PY635	White fine powder	150~200	115-120		200 mesh pass	PE(LDPE,HDPE),PP, PS(GPPS,HIPS) etc.	
TFC-PY660N	White fine powder	150-200	110-115		200 mesh pass	PE(LDPE,HDPE),PP, PS(GPPS,HIPS) etc.	
TFC-LMB660N (Master Batch 20%)	White Pellet	150~200	60-70		-	PE(LDPE,HDPE),PP, PS(GPPS,HIPS) etc.	
TFC-LMB330N (Master Batch 30%)	White Pellet	150-200	65-75		-	PE(LDPE,HDPE),PP, PS(GPPS,HIPS) etc.	
TFC-LMB550N (Master Batch 50%)	White Pellet	150~200	80-90		-	PE(LDPE,HDPE),PP, PS(GPPS,HIPS) etc.	

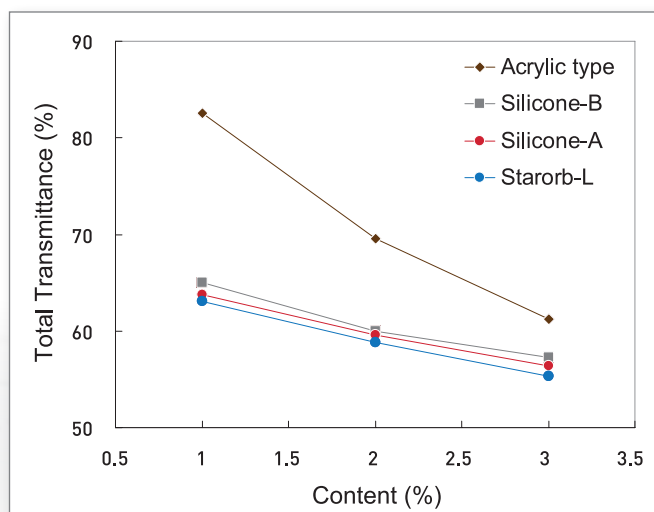
Foaming Agent

Chemical Description	Appearance	Decomposition temp.(°C)	Gas volume ml/g(STP)	Gas volume ml/g(IN AIR)	Particle Size(um)	Application	IMAGE
Endothermic and Exothermic	Light Yellow fine powder	150-200	150-220			PS,PE,PP ETC	
TFC-PY1000	Light Yellow fine powder	150-200	150-160			PS,PE,PP ETC	
TFC-PY2000	Light Yellow fine powder	150-200	166-170			PS,PE,PP ETC	
TFC-PY3000	Light Yellow fine powder	150-200	175-185			PS,PE,PP ETC	
TFC-PY4000	Light Yellow fine powder	150-200	185-190			PS,PE,PP ETC	
TFC-PY5000	Light Yellow fine powder	150-200	190-200			PS,PE,PP ETC	

Silicon Bead_SL-200M

High performance light diffusing agent

- Low RI and small particle size
- Good thermal stability and optimum surface property



Property	Unit	SL-200M
Mean diameter	µm	2
C.V.	%	15 - 20
Decomp. Temp.	°C	400↑
Moisture content	%	1↓
True Density	g/ml	1.32
Bulk Density	g/ml	~ 0.40
Refractive Index	a. u.	~1.43
Oil absorption	ml/100g	50 - 60
10% K-value	kg/mm ²	580
Angle of Repose	deg.	40 - 45
Heavy metals	ppm	N.D.
Surface property		Hydrophobic

Foaming Agent_ACPE

Feature

Specially formulated chemical blowing agent for cross-linked LDPE foam with chemical crosslinking by extrusion and continuous oven foaming process. Well dispersible in polymer compound, makes fine & uniform cell structure and smoother skin in the sponge. Uniform and fine cells, in spite of variant LDPE grades by different resin manufacturers. As decomposes at a faster rate, suitable for lower-temperature processing without any special kickers or additives compared to normal Azodicarbonamide. Odorless fine powder, a wetted type to reduce the powered dusts, with special additives.

Application

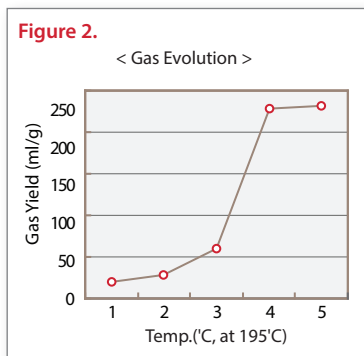
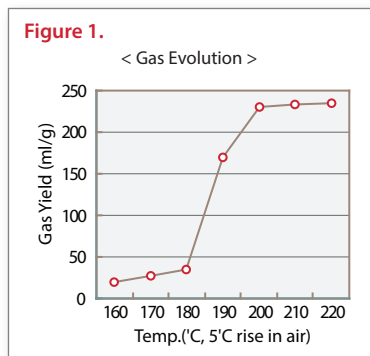
Most effective blowing agent for chemically crosslinked LDPE foams for Thermal insulation, Cushioning and Packaging material for equipment, Sports/ Leisure goods, and Floating materials.

Product Description / Specification

Product name	TFC-ACPE(LHQ)	TFC-ACPE,ACPE(H),ACPE(T)
Appearance	Orange yellow fine powder	Orange yellow fine powder
Decom. temp.(°C)	179 ~ 189	195 ~ 200
Gas volume (ml/g)	200 ~ 220	225 ~ 245
Average particle size (micron)	12~ 15	16 ~ 22
Moisture (%)	0.3 max.	0.3 max.
pH	6.5 ~ 7.5	6.5 ~ 7.5

Formulation& Operation Conditions

Product name	TFC-ACPE(LHQ)	TFC-ACPE,ACPE(H),ACPE(T)
Basic Formulation	LDPE (MI=0.8) 100 PHR, DCP 0.6 ~ 0.8 PHR, TFC-ACPE 23 PHR	LDPE (MI=0.8) 100 PHR, DCP 0.6 ~ 0.8 PHR, TFC-ACPE(LHQ) 23 PHR
Kneader mixing and extrusion temperature for pellet	105~115°C	105~115°C
Extrusion temperature for sheeting	105~125°C (T-die: 125°C)	105~125°C (T-die: 125°C)
Cross-linking and foaming temperature	160~170°C and 210~220°C	160~170°C and 210~220°C





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