


DAITO's Dispersion

List of Dispersion

< Water Dispersion of Carbon Black - WD Series ->

Product Name	INCI Name	Property	Remarks
WD-CB2	BLACK 2, CI 77266 WATER Dispersing agent Preservative	Low Viscosity (Water Dispersion) Good Dispersibility	FDA Certified Carbon Black DK BLACK No.2 (D&C BLACK No.2 CI77266)
WD-VCB25	CHARCOAL POWDER WATER Dispersing agent Preservative	Low Viscosity (Water Dispersion) Stronger Color Strength than Black Iron Oxide High Solid Content	Non Nano Vegetable Carbon from Oak Tree meets E153 

<Water Dispersion of Titanium Dioxide, Iron Oxides, Ferric Ferrocyanide - WD Series ->

Product Name	INCI Name	Property	Remarks
WD-Ti50	TITANIUM DIOXIDE WATER Dispersing agent Preservative	Low Viscosity (Water Dispersion) High Solid Content Good Dipersibility Easy to formulate Easy for Shade Match Process	Solid Content: 50%
WD-IOY50	IRON OXIDES, CI77492 WATER Dispersing agent Preservative	Low Viscosity (Water Dispersion) High Solid Content Good Dipersibility Easy to formulate Easy for Shade Match Process	Solid Content: 50%
WD-IOR50	IRON OXIDES, CI77491 WATER Dispersing agent Preservative	Low Viscosity (Water Dispersion) High Solid Content Good Dipersibility Easy to formulate Easy for Shade Match Process	Solid Content: 50%
WD-IOB50	IRON OXIDES, CI77499 WATER Dispersing agent Preservative	Low Viscosity (Water Dispersion) High Solid Content Good Dipersibility Easy to formulate Easy for Shade Match Process	Solid Content: 50%
WD-FB40	FERRIC AMMONIUM FERROCYANIDE WATER Dispersing agent Preservative	Low Viscosity (Water Dispersion) High Solid Content Good Dipersibility Easy to formulate Easy for Shade Match Process	Solid Content: 40%


<Water Dispersion of Transparent Iron Oxides - WD Series ->




Product Name	INCI Name	Property	Remarks
WD-TIOY30(E)	Transparent IRON OXIDES, CI77492 WATER Dispersing agent Preservative	For Pen Type Eye liner Low Viscosity (Water Dispersion) Good Dispersibility Easy to formulate Easy for Shade Match Process	Solid Content: 30%
WD-TIOR30(E)	Transparent IRON OXIDES, CI77491 WATER Dispersing agent Preservative	For Pen Type Eye liner Low Viscosity (Water Dispersion) Good Dispersibility Easy to formulate Easy for Shade Match Process	Solid Content: 30%
WD-TIOBR30(E)	Transparent IRON OXIDES, CI77491 BLACK 2, CI77266 WATER Dispersing agent Preservative	For Pen Type Eye liner Low Viscosity (Water Dispersion) Good Dispersibility Easy to formulate Easy for Shade Match Process	Solid Content: 30%

List of Dispersion

< Water Dispersion of Organic Pigments - WD Series ->

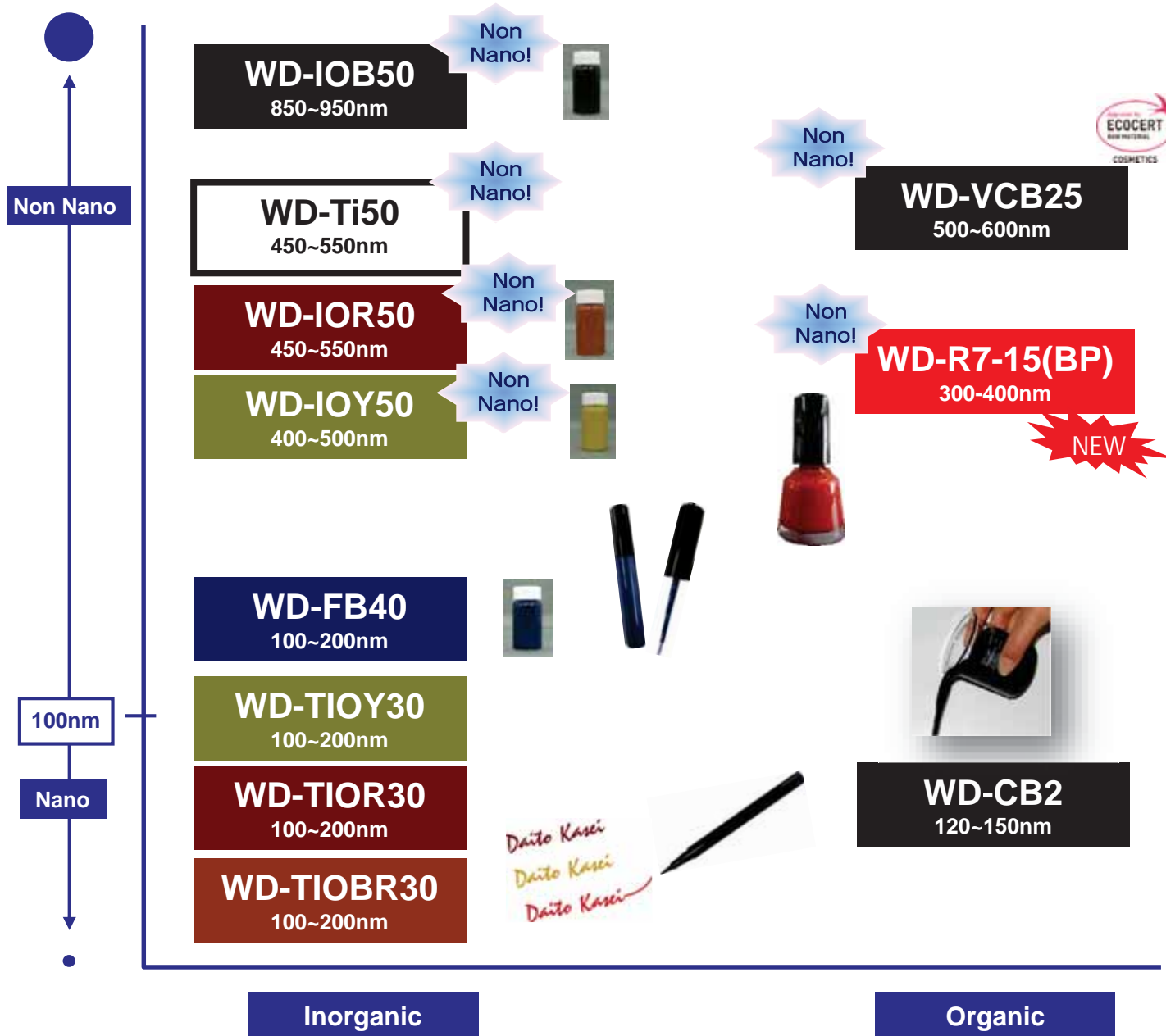
製品名	表示名称	特徴	備考
 WD-R7-15(BP)	RED 7, CI15850 WATER Dispersing agent Preservative	Low Viscosity (Water Dispersion) High Solid Content Good Dispersibility Easy to formulate Easy for Shade Match Process	Solid Content: 15%

< Oil Dispersion of Carbon Black – ISD/VD Series ->

製品名	表示名称	特徴	備考
ISD-CB2	BLACK 2, CI 77266 Dispersing agent ISODODECANE	Low Viscosity Good Dispersibility Water Proof	FDA Certified Carbon Black DK BLACK No.2 (D&C BLACK No.2 CI77266)
ISD-VCB25	CHARCOAL POWDER Dispersing agent ISODODECANE	Low Viscosity Stronger Color Strength than Black Iron Oxide High Solid Content Water Proof	Non Nano Charcoal Powder from Oak Tree meets E153
VD-VCB25	CHARCOAL POWDER Dispersing agent DODECANE	Low Viscosity Stronger Color Strength than Black Iron Oxide High Solid Content Water Proof	Non Nano Charcoal Powder from Oak Tree meets E153 

Dispersion MAP

● WD Series



● ISD/VD Series



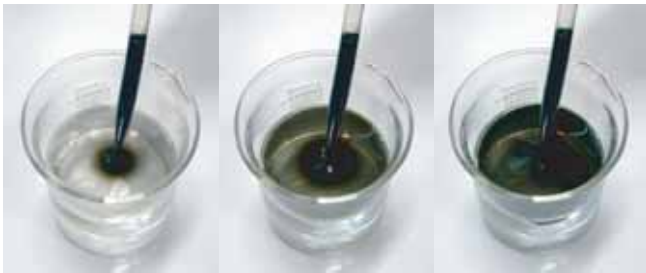
WD-CB2 -Water Dispersion of Carbon Black-



- Stable Dispersion at Low Viscosity.
- Contains 25% of FDA Certified Furnace Carbon Black.
- Easy to formulate, Eye Liner, Mascara etc.
- Dust Free

*Dispersion containing channel black is also available.

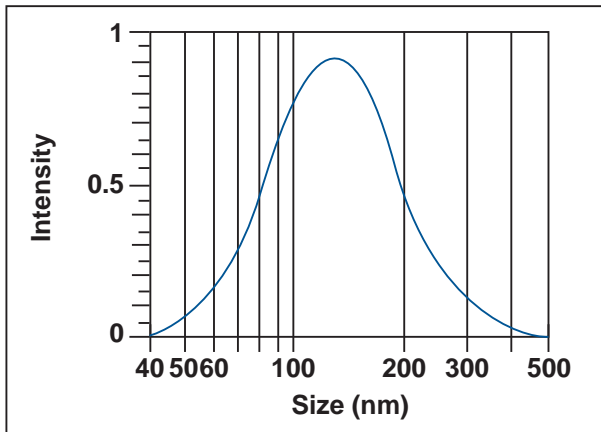
Superior Dispersability



Method : Put droplet of WD-CB2 into water

Contains D&C BLACK No.2
(FDA Certified CARBON BLACK)
DK BLACK No.2

Particle-Size Distribution



Mean Diameter : 120~150nm

Superior Water Resistancy of Eye Liner, DE-0007-WDCB2

Non Bleeding



Method:
Apply eye liner on PET film using applicator (0.1mm), and dry for 1 hour.
Put the film into water for 5minutes.

Non Transfer



After taking out the film from water, push the paper on the film to check the transfer of the black color.

Stability

Items	After maunufacturing	After 1 week at room temperature	After 4 weeks at room temperature	After 1 week at 50°C	After 4 weeks at 50°C
Viscosity (mPa·s)	14.9	16.4	18.9	20.5	23.4
D50 (nm)	131	121	126	121	127
pH	7.1	7.2	7.2	6.8	7.2
Appearance	Stable	Stable	Stable	Stable	Stable

FDA Carbon Black Fiber Mascara Ingredient		Product Name	Formula No. DM-0015-NFCB
			Composition (%)
(MASCARA BASE)			
A	Carnauba	-	5.50
A	Beeswax	-	9.00
A	Stearic acid	Lunac S-98	2.00
A	Glyceryl stearate	Rheodol MS165V	2.00
A	Propylene glycol stearate	Homotex PS-200	2.00
A	Polyisobutene	-	2.00
A	Cyclomethicone	KF-995	5.00
B	WD-CB2		20.00
B	De-ionized water		18.45
B	1,3-Butylene glycol		2.00
B	Triethanolamine		1.75
B	Preservative		0.30
C	Acrylates/Ethyl hexyl acrylate copolymer	DAITOSOL 5000SJ	30.00
Total			100.00
(FINAL COMPOUND)			
MASCARA BASE			95.00
NFCB-3D-1T			5.00
Total			100.00

FDA Carbon Black Eye Liner Ingredient		Product Name	Formula No. DE-0007-WDCB2
			Composition (%)
A	De-ionized water	-	48.50
A	1,3-Butylene glycol	-	1.00
A	Xanthan gum	-	0.20
A	Preservative	-	0.30
B	WD-CB2		20.00
C	Acrylates/Ethyl hexyl acrylate copolymer	DAITOSOL 5000SJ	30.00
Total			100.00

[REMARK]

We don't take any responsibility concerning to use of these formulations. These formulations are suggested as guidance.

The health and safety test has not been established by testing. Evaluation and testing are needed to the final formulation.

WD Series - Water Dispersion of Charcoal Powder

Property

1. Vegetable Origin Dispersion

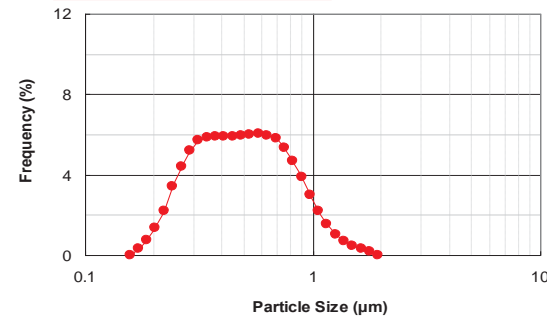


Charcoal Powder
From Oak Tree

2. Low Viscosity -Shake Well Product -



3. Non Nano Dispersion



Median Diameter:
about 500nm

4. Stronger Color Strength than Black Iron Oxide

CB2 VCB25 Black Iron oxide



7.5% solid content
in Eye Liner Formula

5. High Solid Content -25%-

6. Easy to Formulate, Dust Free

Charcoal Black Eye Liner

No. DE-0021-WDVCB25

<Phase>	<Ingredient>	<%>
A	DE-IONIZED WATER	37.70
A	1,3-BUTYLENE GLYCOL	1.00
A	XANTHAN GUM	0.50
A	HECTORITE	0.50
A	PRESERVATIVE	0.30
B	WD-VCB25	30.00
C	DAITOSOL 5000STY	30.00
TOTAL :		100.00



Charcoal Black Mascara

No. DM-0040-WDVCB25

<Phase>	<Ingredient>	<%>
A	CARNAUBA	5.50
A	BEESWAX	9.00
A	STEARIC ACID	2.00
A	GLYCERYL STEARATE SE	2.00
A	PROPYLENE GLYCOL STEARATE	2.00
A	POLYISOBUTENE	2.00
A	CYCLOMETHICONE	5.00
B	WD-VCB25	20.00
B	DE-IONIZED WATER	18.45
B	1,3-BUTYLENE GLYCOL	2.00
B	TRIETHANOLAMINE	1.75
B	PRESERVATIVE	0.30
C	DAITOSOL 4000SJT	30.00
TOTAL :		100.00



DAITO's Dispersion Series

WD Series –Water Dispersion-

- *Low Viscosity - Shake well Product -*
- *High Solid Content*
- *Easy to formulate*
- *Foundation, Eye Liner, Mascara etc-*
- *Easy for Shade Match Process*
- *Dust Free*

Grade	Pigment	Concentration (%)
WD-Ti50	Titanium Dioxide	50
WD-IOY50	Yellow Iron Oxide	50
WD-IOR50	Red Iron Oxide	50
WD-IOB50	Black Iron Oxide	50
WD-FB40	Ferric Ferrocyanide	40

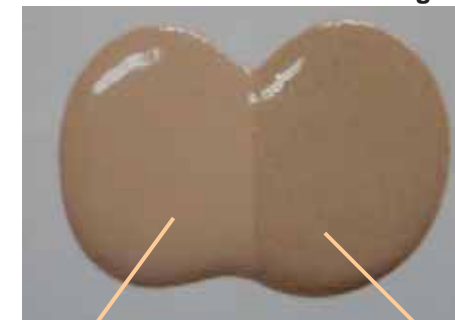
● Superior Dispersability into water



● Superior Dispersability for liquid foundation application

O/W Foundation with WD

O/W Foundation with Pigment



Microscopic image (X 175)



O/W Liquid Foundation

No. DL-0033-WD

<Phase>	<Ingredient>	Pink <%>	Ocre <%>	Beige <%>	<Trade Name>	<Supplier>
A	STEARIC ACID	2.50	2.50	2.50	LUNAC S-98	Kao Chemicals
A	GLYCERYL STEARATE SE	1.80	1.80	1.80	RHEODOL MS165V	Kao Chemicals
A	CETYL ALCOHOL	0.50	0.50	0.50		
A	MINERAL OIL	9.90	9.90	9.90		
B	WD-TI50	17.08	16.80	16.24		DAITO KASEI
B	WD-IOY50	1.43	1.95	2.60		DAITO KASEI
B	WD-IOR50	0.84	0.56	0.42		DAITO KASEI
B	WD-IOB50	0.42	0.42	0.42		DAITO KASEI
C	DE-IONIZED WATER	54.53	54.57	54.62		
C	1,3-BUTYLENE GLYCOL	9.00	9.00	9.00		
C	PRESERVATIVE	0.30	0.30	0.30		
C	TRIETHANOLAMINE	1.20	1.20	1.20		
C	XANTHAN GUM	0.50	0.50	0.50		
TOTAL :		100.00	100.00	100.00		

Pearly Eye Liner

No. DE-0032-WDFB40

<Phase>	<Ingredient>	Blue <%>	Light Blue <%>	Green <%>	Violet <%>	<Trade Name>	<Supplier>
A	DE-IONIZED WATER	51.10	47.50	51.80	56.60		
A	1,3-BUTYLENE GLYCOL	1.00	1.00	1.00	1.00		
A	XANTHAN GUM	0.70	0.70	0.70	0.70	KELTROL CG-T	SANSHO
A	HECTORITE	0.70	0.70	0.70	0.70	LAPONITE XLS	ROCKWOOD
A	PRESERVATIVE	0.30	0.30	0.30	0.30		
B	WD-FB40	12.00	10.00	3.60	2.60		DAITO KASEI
B	WD-TI50	4.20	9.80	2.00	1.40		DAITO KASEI
B	WD-IOY50	-	-	3.90	-		DAITO KASEI
B	WD-IOR50	-	-	-	0.70		DAITO KASEI
C	DK PEARL-GFIF WHITE	10.00	10.00	-	-		DAITO KASEI
C	DK PEARL GOLD	-	-	16.00	-		DAITO KASEI
C	DK PEARL BORDEAUX	-	-	-	16.00		DAITO KASEI
D	DAITOSOL 5000STY	20.00	20.00	20.00	20.00		DAITO KASEI
TOTAL :		100.00	100.00	100.00	100.00		

Long Lasting Brown Fiber Mascara

No. DM-0027-WDIO

<Phase>	<Ingredient>	<%>	<Trade Name>	<Supplier>
	(MASCARA BASE)			
A	CARNAUBA	5.50		
A	BEESWAX	9.00		
A	STEARIC ACID	2.00	LUNAC S-98	Kao Chemicals
A	GLYCERYL STEARATE SE	2.00	RHEODOL MS165V	Kao Chemicals
A	PROPYLENE GLYCOL STEARATE	2.00	HOMOTEX PS-200	Kao Chemicals
A	POLYISOBUTENE	2.00		
A	CYCLOMETHICONE	5.00	KF995	Shin Etsu
B	WD-IOY50	3.00		DAITO KASEI
B	WD-IOR50	3.00		DAITO KASEI
B	WD-IOB50	14.00		DAITO KASEI
B	DE-IONIZED WATER	18.45		
B	MAKILENE GC	2.00		DKE
B	TRIETHANOLAMINE	1.75		
B	PRESERVATIVE	0.30		
C	DAITOSOL 5000STY	30.00		DAITO KASEI
TOTAL :		100.00		
	(FINAL COMPOUND)			
	MASCARA BASE	97.00		
	NFBR-10D-2T	3.00		DAITO KASEI
TOTAL :		100.00		

Pearly Mascara

No. DM-0045-WD

<Phase>	<Ingredient>	Black <%>	Blue <%>	<Trade Name>	<Supplier>
A	CARNAUBA	5.50	5.50		
A	BEESWAX	9.00	9.00		
A	STEARIC ACID	2.00	2.00	LUNAC S-98	Kao Chemicals
A	GLYCERYL STEARATE SE	2.00	2.00	RHEODOL MS165V	Kao Chemicals
A	PROPYLENE GLYCOL STEARATE	2.00	2.00	HOMOTEX PS-200	Kao Chemicals
A	POLYISOBUTENE	2.00	2.00		
A	CYCLOMETHICONE	5.00	5.00	KF995	Shin Etsu
B	WD-IOB50	20.00	-		DAITO KASEI
B	WD-FB40	-	20.00		DAITO KASEI
B	WD-TI50	-	3.90		DAITO KASEI
B	DE-IONIZED WATER	23.45	19.55		
B	MAKILENE GC	2.00	2.00		DKE
B	TRIETHANOLAMINE	1.75	1.75		
B	PRESERVATIVE	0.30	0.30		
C	DAITOSOL 4000SJT	20.00	20.00		DAITO KASEI
D	DK PEARL-GFIF WHITE	5.00	5.00		DAITO KASEI
TOTAL :		100.00	100.00		

Transparent Iron Oxide Dispersion

WD Series –Water Dispersion-

1. Advantages

- For Pen Type Eye Liner -Ultrafine Iron Oxide Dispersion-
- Available **Brown**, **Yellow** and **Red** Color Dispersion
- Other Color Can be Prepared by Mixing **Yellow**, **Red** and **Black** of WD-CB2 (Carbon Black Dispersion)
- Stable Dispersion at Low Viscosity
- Easy to Formulate
- Easy for Shade Match Process
- Dust Free

Grade	Pigment	Concentration (%)
WD-TIOY30(E) New!	Transparent Yellow Iron Oxide	30
WD-TIOR30(E) New!	Transparent Red Iron Oxide	30
WD-TIOBR30(E) New!	Transparent Red Iron Oxide (AND) Carbon Black	30

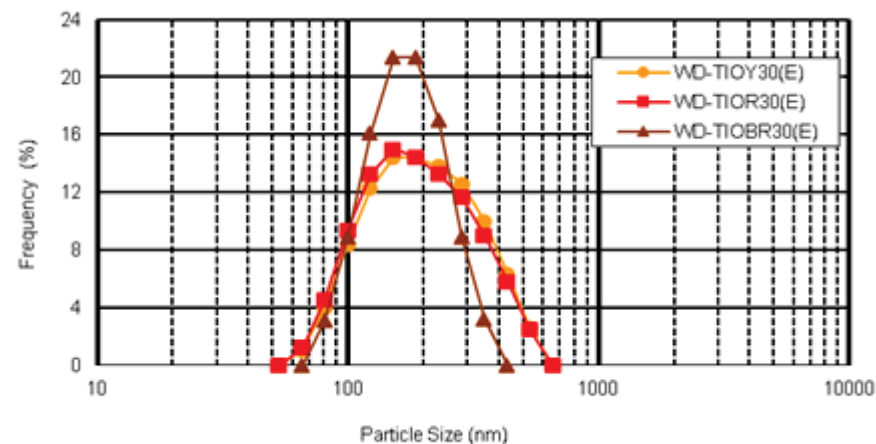
2. Available 3 Grades

WD-TIOY30(E) WD-TIOR30(E) WD-TIOBR30(E)



3. Particle Size Distribution

Mean Diameter: 100~200nm



Transparent Iron Oxide Dispersion

WD Series –Water Dispersion-

Felt Pen Eye Liner

No. DE/004

<Phase>	<Ingredient>	Black <%>	Dark Brown <%>	Light Brown <%>	<Trade Name>	<Supplier>
A	DE-IONIZED WATER	58.70	58.70	58.70		
A	MAKILENE GC	1.00	1.00	1.00		DKE
A	PRESERVATIVE	0.30	0.30	0.30		
B	WD-CB2	20.00	4.70	-		DAITO KASEI
B	WD-TIOY30(E)	-	15.30	-		DAITO KASEI
B	WD-TIOBR30(E)	-	-	20.00		DAITO KASEI
C	DAITOSOL 5000STY	20.00	20.00	20.00		DAITO KASEI
TOTAL :		100.00	100.00	100.00		

<MANUFACTURING PROCEDURE>

1. Prepare Phase A.
2. Add Phase B, and Phase C into Phase A under stirring.

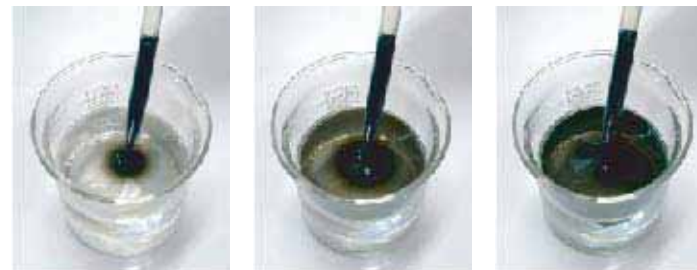


DAITO's Dispersion Series



- Stable Dispersion at Low Viscosity
- Contain FDA Certified, Furnace Carbon Black **DK BLACK No.2**
- Easy to formulate Eye liner, Mascara etc.
- Dust Free

● Superior Dispersability



WD Series –Water Dispersion-

Grade	Remark
WD-CB2	Standard Grade
WD-CB2S	Stearath Type
WD-CB2NP	No Preservative Low pH

ISD –Isododecane Dispersion-

Grade	Remark
ISD-CB2	For Water Proof Formula

No. DE-0013-WDCB2	Deep Black Eye Liner				
<PROPERTY>	<Phase>	<Ingredient>	<%>	<Trade Name>	<Supplier>
Water Resistant	A	DE-IONIZED WATER	37.85		
	A	1,3-BUTYLENE GLYCOL	1.00		
Deep Black	A	XANTHAN GUM	0.75	KELTROL CG-T	SANSHO
	A	PRESERVATIVE	0.30		
Glossy Appearance	B	WD-CB2	30.00		DAITO KASEI
5000STY gives long lasting effect	C	DAITOSOL 5000STY	30.00		DAITO KASEI
	D	AF Emulsion (10% in water)	0.10		Dow Corning
		TOTAL : 100.00			

No. DM-0015-NFCB	FDA Carbon Black Fiber Mascara				
<PROPERTY>	<Phase>	<Ingredient>	<%>	<Trade Name>	<Supplier>
Water Resistant		(MASCARA BASE)			
	A	CARNAUBA	5.50		
Color: Black	A	BEESWAX	9.00		
	A	STEARIC ACID	2.00	LUNAC S-98	Kao Chemicals
Long Lash	A	GLYCERYL STEARATE SE	2.00	RHEODOL MS165V	Kao Chemicals
	A	PROPYLENE GLYCOL STEARATE	2.00	HOMOTEX PS-200	Kao Chemicals
	A	POLYISOBUTENE	2.00		
	A	CYCLOMETHICONE	5.00	KF995	Shin Etsu
	B	WD-CB2	20.00		DAITO KASEI
	B	DE-IONIZED WATER	18.45		
	B	1,3-BUTYLENE GLYCOL	2.00		
	B	TRIETHANOLAMINE	1.75		
	B	PRESERVATIVE	0.30		
	C	DAITOSOL 5000SJ	30.00		DAITO KASEI
		TOTAL : 100.00			
		(FINAL COMPOUND)			
		MASCARA BASE	95.00		
		NFCB-3D-1T	5.00		DAITO KASEI
		TOTAL : 100.00			

Vegetable Dodecane Dispersion of Charcoal Powder

Property

1. Vegetable Origin Dispersion



certified



Charcoal Powder
from Oak Tree

Dodecane
from Palm Oil
Certified by

RSPO

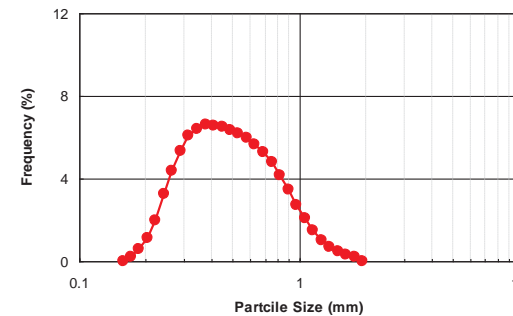
Roundtable on Sustainable Palm Oil



2. Low Viscosity - Shake Well Product -



3. **Non Nano** Dispersion



Median Diameter:
about 500nm

4. High Solid Content -25%-

5. for Water Proof Formula, Dust Free

6. for Natural Formula

Natural Waterproof Gel Eye Liner

No. DE-0031-VDVCB25

<Phase>	<Ingredient>	<%>
A	VEGETABLE SQUALANE	3.10
A	MAKIGREEN RICE WAX	25.00
A	DODECANE	17.00
A	QUATERNIUM-18 HECTORITE	1.60
A	PRESERVATIVE	0.30
B	VD-VCB25	50.00
C	CELLULOBEADS D-10	3.00
TOTAL :		100.00



Natural Mascara

No. DM-0044-VDVCB25

<Phase>	<Ingredient>	<%>
(MASCARA BASE)		
A	DODECANE	14.00
A	ALUMINUM STEARATE	1.00
A	VEGETABLE SQUALANE	1.60
B	MAKIGREEN RICE WAX	22.00
B	CASTOR WAX	5.00
B	CANDELILLA WAX	10.00
C	DODECANE	13.22
C	QUATERNIUM-18 HECTORITE	0.75
C	ALCOHOL(97%)	1.03
D	VEGETABLE SQUALANE	5.70
D	PRESERVATIVE	0.40
E	VD-VCB25	13.30
F	CELLULOBEADS D-10(UB-33)	3.00
G	ALCOHOL	9.00
TOTAL :		100.00

