

**GILSONITE USING IN OFFSET, LETTERPRESS, NEWS INK, INTAGLIO, THERMOPLASTIC AND PIGMENT.**

**DESCREPTION OF GILSONITE INK**

GILSONITE BLENDING IN NEWSPAPER OFFSET PRINTING INK AS NON-PETROLEUM ADDITIVE COMPRISING A BLEND OF GILSONITE "NATURAL ASPHALT" FLAKES AND TALL OIL FATTY ACID TOGETHER WITH CARBON BLACK PIGMENT. THE PROPORTIONS OF THE GILSONITE AND THE TALL OIL FATTY ACID MAY BE VARIED, AS VISCOSITY REQUIREMENTS CHANGE DUE TO DIFFERENCES IN PRESS SPEEDS, NEWSPRINT CHARACTERISTICS, AND THE LIKE. THE INK THUS HAS READILY ADJUSTABLE VISCOSITY, TOGETHER WITH AN ENHANCED FLOW AND PENETRATION CHARACTERISTICS, WHILE BEING EXTREMELY ECONOMICAL TO MANUFACTURE.

**HOW TO MAKE STABILIZED INK WITH GILSONITE**

- A. CARBON BLACK IN THE RANGE 10% TO 27.8%,
- B. GILSONITE IN THE RANGE 17.6% TO 23.5%, AND
- C. TALL OIL FATTY ACID IN THE RANGE 50.1% TO 54.9%.

**GILSONITE INK IMPROVE FLUID OF INK**

IT IS KNOWN THAT GILSONITE, WHICH IS A NATURAL PRODUCT, IS ADDED TO A VARNISH COMPONENT FOR IMPROVING THE PRINTABILITY OF A PRINTING INK SUCH AS DISPERSIBILITY OR FLUIDITY. GILSONITE ITSELF IS BLACK SO THAT IT IS SOLELY USED FOR A CARBON BLACK CONTAINING INK. GILSONITE IMPAIRS THE CLEARNESS OF CHROMATIC INKS. THEREFORE, IF GILSONITE IS USED FOR A CHROMATIC INK, THE AMOUNT THEREOF IS LIMITED TO AN EXTREMELY SMALL AMOUNT. UNDER THE ABOVE LIMITATION, THE EFFECT OF IMPROVING FLUIDITY IS SMALL, SO THAT GILSONITE HAS NOT BEEN PRACTICALLY USED FOR CHROMATIC INKS.

**PACKING OF GILSONITE FOR INK USES "NATURAL ASPHALT" LUMP AND POWDER FORM "MICRONIZED"**

GILSONITE IN LUMP FORM LIKE ROCK PACKED IN 500~1000KG JUMBO BAG

GILSONITE 200 MESH PACKED IN 500~1000KG JUMBO BAG

GILSONITE 300 MESH PACKED IN 500~1000KG JUMBO BAG

GILSONITE 30-40 MESH PACKED IN 500~1000KG JUMBO BAG  
 GILSONITE 100 MESH PACKED IN 500~1000KG JUMBO BAG  
 GILSONITE 300 MESH PACKED IN 25KG PP BAG  
 GILSONITE 200 MESH PACKED 25KG MULTI PAPER BAG  
 GILSONITE 200 MESH PACKED 50LBS MULTI PAPER BAG  
 GILSONITE 30-40 MESH PACKED PP BAG ON PALLET  
 BULK ON VESSEL



### SPECIFICATION OF GILSONITE WITH INK APPLICATION

NO	TEST	RESULT	TEST METHOD
1	ASH CONTENT,WT%	1	ASTM-D3174
2	MOISTURE CONTENT,WT%	0.5%	ASTM-D3173
3	VOLATILE MATTER,WT%	64	ASTM-D3175
5	SOLUBILITY IS CS2,WT%	98	ASTM-D4
6	SPECIFIC GRAVITY @25 C	1.01	ASTM-D3289
7	NORMAL HEPTHAN INSOLUBLES,WT%	90	ASTM-D3279
8	COLOR IS MASS	BLACK	-----
9	COLOR IN STREAK OR POWDER	BLACK	-----
10	SOFTENING POINT,C	147	ASTM-D36
11	PENETRATION @25C	0	ASTM-D5
<b>ELEMENT ANALYSIS</b>			
1	CARBON,WT%	90	ASTM-D5291
2	HYDROGEN,WT%	7.1	ASTM-D5291
3	NITROGEN,WT%	3.67	ASTM-D5291
4	OXYGEN,WT%	3.1	ASTM-D5291
5	SULPHURE,WT%	0.8	LECO(S)ANALYZER

### OUR APPROVAL

