DCC YELLOW 1117
Hansa Yellow R.S.

SPECIFICATIONS AND PROPERTIES

Chemical Type ------------------ Butanamide, 2-[(4-methoxy-2-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxo-
Colour Index Name ------------------ Pigment Yellow 65
CAS No. ------------------------ 6528-34-3
Physical Form ------------------ Yellow Powder

<table>
<thead>
<tr>
<th>SPECIFICATIONS:</th>
<th>LIMITS</th>
<th>TEST METHODS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shade</td>
<td>Max. Delta E* 2.0 of Std.</td>
<td>DCC TM 1136 (1)</td>
</tr>
<tr>
<td>Tint Strength (apparent)</td>
<td>± 5% of Std.</td>
<td>DCC TM 1136 (1)</td>
</tr>
</tbody>
</table>

GENERAL DATA (TYPICAL VALUES):

Specific Gravity ----- 1.41 g/cc ------------ DCC TM 3101B (1)
Oil Absorption ------ 42 ----------------- ASTM D-281-84 (Fasig Method)
Moisture ----------- 2.0% max. ----------- ASTM D-280-81 Method A

(1) Test Methods available from DCC on request.

PROPERTIES:

BLEED RESISTANCE
Ethyl Acetate -------------------- Poor
Ethyl Alcohol ------------------- Good
Cellosolve ----------------------- Poor
D.B.P. -------------------------- Poor
Glycol --------------------------- Good
Linseed Oil ---------------------- Good
MEK ----------------------------- Poor
Mineral Spirits ------------------ Good
Xylene --------------------------- Poor
Wax (Paraffin) ------------------ Excellent
Water (cold) -------------------- Excellent

HEAT RESISTANCE
120°C/30 mins. - Ink ----- Very Good*
120°C/45 mins. - Paint --- Very Good*
150°C/20 mins. - Paint --- Very Good*
165°C/15 mins. - Paint --- Good*

LIGHTFASTNESS - INK (72 hr. F/O)
Full Strength ---------------------- N/A
TiO₂ Tint (1:10)------------------- N/A

WEATHERFASTNESS - PAINT (W/O or Florida)
Full Strength ---------------------- Good
TiO₂ Tint (1:10)------------------- Good

CHEMICAL RESISTANCE
Full Strength ---------------------- Good

Dilute Acid ----------------------- Excellent
Dilute Alkali ---------------------- Excellent
Soap ------------------------------ Very Good

F/O = Fade-o-meter
W/O = Weather-o-meter

SPECIAL COMMENTS: * May exhibit blooming or bronzing. Not recommended for baking systems.

Shade & strength determinations are made with the aid of a MacBeth Colour Computer, under the following conditions: CIELAB, 10 degree observer, D65 light source, UV & gloss included.

TECHNICAL SERVICE LAB APPROVAL: ______________________________
QUALITY CONTROL LAB APPROVAL: ______________________________
DATE OF ISSUE: 19th April 2011 PAGE 1 OF 1 Ver. # 4.0