

## IR - Automobile Paint Chips

Product Code - This database is available only as part of the KnowItAll® IR Spectral Library  
Spectra - 1,990

### Description

This database includes 1,990 infrared spectra of automotive paint chips and it is used to augment color comparisons or can also be used in chemical comparisons. Paint types included are acrylic solution lacquer, acrylic dispersion lacquer, acrylic enamel, polyester enamel, urethane enamel, base coat/clear coat acrylic enamel, non-aqueous dispersion enamel (NAD), water-based enamel, and unspecified.

### Technique

All the color chips in the database were prepared from actual production paint batches. The original-finish paint suppliers prepared the paint panels from which the chips were cut. The color chips were compared visually and instrumentally with a set of master color standards to ensure validity of the individual chips. This master set was provided by the automotive manufacturers.

The information was compiled by Collaborative Testing Services, Inc., and the spectra were run by the Georgia State Crime Lab. Bio-Rad has processed the data to minimize carbon dioxide and water bands. All the color chips in this collection were prepared from actual production paint batches. The original finish paint suppliers prepared the paint panels from which the chips were cut.

The spectra are identified by paint supplier. The Inter-Society Color Council-National Bureau of Standards method for designating color names was employed to locate the colors in the database. Before release, all information was reviewed by our technical staff.

### Explanations of the Nine Character Code:

#### First Character - Paint Supplier:

A - Almatex (Canadian Celanese)	54
B - PPG of Canada (Canadian Pittsburgh Industries)	78
C - Jones-Dabney - U.S. Celanese (now part of Inmont)	84
D - DuPont	258
F - Ford (Now part of DuPont) 1	96
K - Glasurit America (Formerly Cook; now part of BASF Inmont)	228
L - C.I.L. (Canadian Industries, Ltd.)	144
N - BASF Inmont	666
P - PPG Industries	283
X - Not specified	

#### Second Character - Paint Type:

A - Acrylic Solution Lacquer (In past years Base Coat/
B - Acrylic Dispersion Lacquer Clear Coat Acrylic Enamels
C - Acrylic Enamel were labeled C. Starting
D - Polyester Enamel with this 1987 Collection
F - Urethane Enamel all Base coat/Clear Coat
H - Base Coat/Clear Coat Acrylic Enamel Acrylic Enamels are labeled
N - Non-Aqueous Dispersion Enamel (NAD) H. However, those previously
W - Water-Based Enamel labeled C will remain as C.)
X - Not Specified

**Third and Fourth Characters:**

Year sample made and placed in collection.

**Fifth Character - Color (Not always available):**

The Inter-Society Color Council - National Bureau of Standards method for designating color names was employed to locate the colors in the collection. The colors are coded as follows:

A - White  
B - Gray  
C - Black  
D - Pink  
E - Red  
F - Brown  
G - Orange  
H - Yellow  
J - Olive  
K - Green  
L - Blue  
M - Violet  
N - Purple

**Sixth through Ninth Characters - Chip Identity:**

The last four digits were assigned sequentially as the color was placed in the collection.