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LABORATORY REPORT

Prodigy: Windshield Treatment
1-15-02

FIBERSHIELD/IPA SYSTEM
ES-218 HW

Background: This aerosol spray treats windshields and other glass to form an ultra smooth, protective film. To test the effectiveness of this film a subjective "feel" comparison was made between bare, clean glass and the treated version. Secondly, a measurement for Cv, coefficient of friction, was determined using an aluminum platform fitted with a strain gauge.

Scope: For the subjective test, a pane of flat glass was cleaned thoroughly and allowed to dry. Half of the glass was masked off and the other half was sprayed with the treatment and allowed to dry. The masking was removed and both sides were tested for subjective feel. For the Cv test, A weighted aluminum panel was pulled along a flat piece of glass. The panel was attached to a strain gauge indexed in inch pounds of torque. Both break-a-way torque and running torque were measured. The test was performed separately on the treated and untreated surfaces.

Results:

1. Subjective: The untreated glass exhibited the traditional "squeaky clean feel" showing friction and resistance to the bare finger. The treated side was entirely slippery to the touch. The film was clear and very smooth.
2. Cv: The untreated panel showed (after several passes) a breakaway torque of 6-7 inch pounds. The running torque was 3-4 inch pounds. The treated side showed a slight reading below the scale of the gauge for the breakaway torque and no reading of the scale (1-10 inch pounds) for running torque.

Conclusion: As to smoothness or general slip, the treated side was noticeable better than bare glass. The ultimate goal is to provide a permanently smooth surface that will repel the elements and reduce glass wear.

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