The following are work surface performance requirements which the specifier may wish to insert into Part 1 of the casework specifications.

**1. WORK SURFACE PERFORMANCE REQUIREMENTS**

A. Test procedure: Apply five drops of each reagent to surface and cover with 25mm watch glass, convex side down; test volatiles using one ounce bottle stuffed with saturated cotton. After 24 hour exposure flush surface, clean, rinse and wipe dry.

B. Evaluation ratings: Change in surface finish and function shall be described by the following ratings:

1. No Effect: No detectable change in surface material.

2. Excellent: Slight detectable change in color or gloss, but no change to the function or life of the work surface material.

3. Good: Clearly discernible change in color or gloss, but no significant impairment of work surface function or life.

4. Fair: Objectionable change in appearance due to surface discoloration or etch, possibly resulting in deterioration of function over an extended period.

5. Failure: Pitting, cratering or erosion of work surface material; obvious and significant deterioration.

C. Test Results - Chemsurf Work Surface:

REAGENT RATING

1. Hydrochloric Acid 37% No Effect

2. Sulfuric Acid 33% No Effect

3. Sulfuric Acid 77% Excellent

4. Sulfuric Acid 96% Failure

5. Formic Acid 90% No Effect

6. Nitric Acid 20% Good

7. Nitric Acid 30% Fair

8. Nitric Acid 70% Failure

9. Hydrofluoric Acid 48% No Effect

10. Phosphoric Acid 85% No Effect

11. Chromic Acid 60% No Effect

12. Acetic Acid 98% No Effect

13. 3 & 8 Equal Parts Fair

14. Ammonium Hydroxide 28% No Effect

15. Sodium Hyrdroxide 10% No Effect

16. Sodium Hydroxide 20% No Effect

17. Sodium Hydroxide 40% No Effect

18. Sodium Hydroxide Flake No Effect

19. Sodium Sulfide No Effect

20. Zinc Chloride No Effect

21. Tincture of Iodine No Effect

22. Silver Nitrate No Effect

23. Methyl Alcohol No Effect

24. Ethyl Alcohol No Effect

25. Butyl Alcohol No Effect

26. Benzene No Effect

27. Xylene No Effect

28. Toluene No Effect

29. Gasoline No Effect

30. Dichlor Acetic Acid Excellent

31. Di Methyl Formamide Excellent

32. Ethyl Acetate No Effect

33. Amyl Acetate No Effect

34. Acetone No Effect

35. Chloroform No Effect

36. Carbon Tetrachloride No Effect

37. Phenol No Effect

38. Cresol No Effect

39. Formaldehyde No Effect

40. Trichlorethylene No Effect

41. Ethyl Ether No Effect

42. Furfura Fair

43. Methylene Chloride No Effect

44. Mono Chlor Benzene No Effect

45. Dioxane No Effect

46. Methyl Ethyl Ketone No Effect

47. Acid Dichromate No Effect

48. Hydrogen Peroxide No Effect

49. Naphthalene No Effect

50. Perchloric Acid No Effect

Insert the following provisions in the designated location in Part 2 of the casework specification section.

**2. CHEMSURF WORK SURFACE**

A. Material: Plastic sheet material, 0.036" thick, formed of papers treated and coated with thermosetting resins, pressure bonded to one inch thick 45 lb. density particle board core and backed with 0.030" thick backer sheet. Band exposed edges with 0.036" thick Chemsurf material. Provide material in color selected by [Architect] [Owner] from manufacturer's full range of standard colors.

B. Backsplash curb: Same material as top [and integral with top] [and butted to top and attached to work surface with screws]. Provide [where indicated on drawings] [where tops abut wall surfaces] [and at reagent ledges]. Include end curb where top abuts end wall.

Width of reagent ledges will vary depending upon design requirements. Indicate widths below if not dimensioned on the drawings.

C. Reagent ledges: Same material as top. Provide 6" high x [ ]" wide single faced units and 6" high x [ ]" wide double faced units [as shown on drawings] [as required]. Ledge face shall permit installation of service fixtures and top shall be removable for access to service utilities.

## END OF APPENDIX A.2