

**COMBINATION STAINS  
(TANNIN AND PROTEIN) (19)**

A tannin stain is defined as a stain originally from a vegetable source. Examples of these stains are: coffee, tea, juice, soft drinks, wine, liquor and ketchup. Protein stains are those stains that originate from a living body. Examples of protein stains are: blood, cream, milk, eggs and perspiration. An example of a combination stain would be coffee and milk, lattes, chocolate, chocolate ice cream, gravy, eggnog and some hard drinks like cocktails with milk or cream. The most important thing is to treat the stain properly to avoid setting the stain. For example, if you use any detergent with a color safe bleach, alkali or ammonia you will set the tannin portion of the stain. If you use any products with alcohol in it you will set the protein portion of the stain. These stains are also set by age and heat which means that they should be treated as soon as possible. If you bring the stained garment into a drycleaner, make sure that they pre-spot the stain so it can be removed before drycleaning. The drycleaning solvent can not remove the staining.

**THE STAIN REMOVAL PROCESS**

**Preparation-**

- (1) a mild detergent mixed with water
- (2) white distilled vinegar
- (3) household ammonia
- (4) towel
- (5) spoon
- (6) 3% hydrogen peroxide

**EXPLANATION OF STAIN REMOVAL PROCEDURE**

In this procedure we are going to work on the tannin portion of the stain first using white vinegar. When household ammonia is used we are working on the protein portion of the stain. When rubbing a stain you can use a towel or the round edge of a spoon. After using ammonia we always rinse area and use white vinegar to neutralize area and prevent yellowing. Always test fabric on an unexposed seam for color safety. This includes the use of ammonia and hydrogen peroxide.

**PROCEDURE**

- (1) Wet area
- (2) Apply the detergent mixed with water
- (3) Gently rub area
- (4) Rinse with water
- (5) Apply vinegar and detergent

(2)

- (6) Rinse area**
- (7) Apply ammonia and detergent**
- (8) Rub area**
- (9) Rinse area**
- (10) Apply vinegar**
- (11) Rinse area with water**
- (12) Apply peroxide 3%**
- (13) Apply a few drops of ammonia**
- (14) Wait 2 minutes**
- (15) Rinse with water**
- (16) Apply vinegar**
- (17) Rinse with water**
- (18) Wash garment or feather out area to prevent rings.**