

CHEMICAL TEXTURE SERVICES

Chemical texture services are hair services that cause a chemical change that alters the natural wave pattern of the hair.

- **Permanent waving:** Adding wave or curl to the hair.
- **Relaxing:** Removing curl or waves; leaving the hair smooth and straight.
- **Curl re-forming (self-curl permanents):** Loosening overly curly hair; changing tightly curly or coiled hair into loose curls or waves. Relaxing first, then perming on rods

THE STRUCTURE OF THE HAIR

- **Cuticle-** tough, exterior layer of the hair; surrounds the inner layers and protects hair from damage; texture chemicals must penetrate through the cuticle in order to be effective
- **Cortex-** middle layer of the hair directly beneath the cuticle; responsible for strength and elasticity of human hair; breaking the side bonds of the cortex makes it possible to change the natural wave pattern of hair
- **Medulla (pith or core)-** innermost layer of hair; does not play a role in chemical texture services; may be missing in fine hair

IMPORTANCE OF pH in TEXTURE SERVICES

- **pH-** abbreviation for potential hydrogen
- **pH scale-** measures the acidity and alkalinity of substances

The pH scale has a range from 0 to 14.

pH of 7 is neutral

pH below 7 is acidic

pH above 7 is alkaline.

pH of normal hair-4.5-5.6

Chemical texturizers raise the pH of hair to an alkaline state in order to soften and swell the hair shaft; this opens the cuticle layer and allows the solution to reach the cortex where restructuring takes place; coarse hair requires high alkaline solution; porous, damaged or treated hair requires a less alkaline solution

BASIC BUILDING BLOCKS OF HAIR

- **Amino acids-** compounds made up of carbon, oxygen, hydrogen, nitrogen, and sulfur
- **Peptide bonds (end bonds)-** chemical bonds that join amino acids together, end to end, in long chains, to form a polypeptide chain
- **Polypeptide chains-** long chains of amino acids joined together by peptide bonds
- **Keratin chains-** long, coiled polypeptide chains
- **Side bonds-** disulfide, salt, and hydrogen bonds that cross-link polypeptide chains together; responsible for the elasticity and strength of hair; altering these three types of bonds is what makes wet setting, thermal styling, permanent waving, curl re-forming, and chemical hair relaxing possible

- ✓ **Disulfide bonds-** formed when two sulfur atoms in adjacent protein chains are joined together; cannot be broken by water; can be broken by extreme heat; there are fewer disulfide bonds than hydrogen or salt bonds
- ✓ **Salt bonds-** relatively weak side bonds caused by the attraction between negative and positive ions; easily broken by changes in pH; they reform when pH returns to normal
- ✓ **Hydrogen bonds-** weak side bonds caused by attraction between opposite electrical charges; easily broken by water or heat; reform as hair dries or cools

PERMANENT WAVING

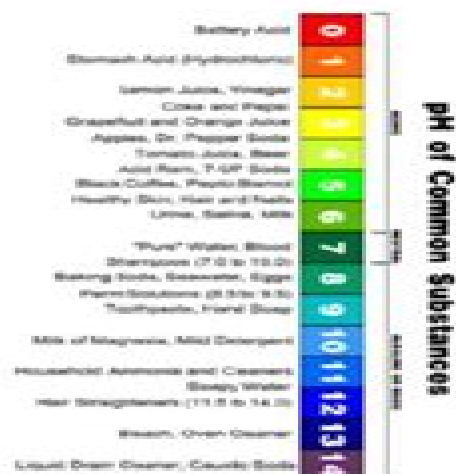
Permanent waving is a two-step process whereby the hair undergoes a physical change caused by wrapping the hair on perm rods and then chemical change caused by the application of permanent waving solution and neutralizer.

- **Perm Wrap-** essentially a wet set on perm rods instead of rollers; a wet set breaks hydrogen bonds and a permanent wave breaks disulfide bonds

- ➡ the size of the rod determines the size of the curl
- ➡ shape and type of curl are determined by the shape and type of rod
- ➡ selecting the correct perm rod and wrapping method is key to creating a successful permanent

• Types of Rods

1. **Concave rods-** most common type; smaller diameter in the center that gets larger on the ends; produce a tighter curl in the center and a looser curl on either side



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