CLAIMS

[Claim 1] A fiber for artificial hair, comprising: a base fiber; a cationic polymer; a cationic surfactant; and a nonionic surfactant, wherein

the cationic polymer, the cationic surfactant, and the nonionic surfactant are present in at least a part of a surface of the base fiber,

the cationic polymer has, as a monomer unit, a monomer having at least one selected from the group consisting of a primary amino group, a secondary amino group, a tertiary amino group, acid-neutralized groups of these groups, and a quaternary ammonium group,

the cationic surfactant has a carbon chain having 12 to 22 carbon atoms,

the nonionic surfactant has a carbon chain having 10 to 20 carbon atoms,

an HLB value of the nonionic surfactant is 13.0 or more, and

a content of the cationic polymer is 0.005% by mass or more based on a total amount of the fiber for artificial hair.

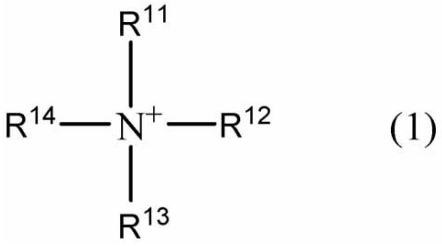
[Claim 2] The fiber for artificial hair according to claim 1, wherein the base fiber contains at least one selected from the group consisting of a homopolymer of vinyl chloride, a vinyl chloride-acrylonitrile copolymer, polyethylene terephthalate, a polyamide-based resin, polypropylene, and an acrylonitrile-styrene copolymer.

[Claim 3] The fiber for artificial hair according to claim 1 or 2, wherein the cationic polymer further has an alkyl (meth)acrylate as a monomer unit.

[Claim 4] The fiber for artificial hair according to any one of claims 1 to 3, wherein the cationic surfactant includes a quaternary ammonium salt having a cation with a structure

represented by General Formula (1) below:

[Chemical Formula 1]



(1)

[in Formula (1), R^{11} represents a group containing a carbon chain having 12 to 22 carbon atoms, and R^{12}, R^{13}, and R^{14} each independently represent a monovalent group].

[Claim 5] The fiber for artificial hair according to any one of claims 1 to 4, wherein the number of carbon atoms of the carbon chain of the cationic surfactant is 18 to 22.

[Claim 6] The fiber for artificial hair according to any one of claims 1 to 5, wherein the HLB value of the nonionic surfactant is 13.0 to 19.0.

[Claim 7] The fiber for artificial hair according to any one of claims 1 to 6, wherein the nonionic surfactant includes polyoxyalkylene alkyl ether.

[Claim 8] The fiber for artificial hair according to any one of claims 1 to 7, wherein the content of the cationic polymer is 0.005 to 0.2% by mass based on the total amount of the fiber for artificial hair.

[Claim 9] The fiber for artificial hair according to any one of claims 1 to 8, wherein a mass ratio of a total amount of the cationic surfactant and the nonionic surfactant with respect to the content of the cationic polymer is 3 to 160.

[Claim 10] The fiber for artificial hair according to any one of claims 1 to 9, wherein a total amount of the cationic polymer, the cationic surfactant, and the nonionic surfactant is 0.1 to 4% by mass based on the total amount of the fiber for artificial hair.

[Claim 11] A headdress article comprising the fiber for artificial hair according to any one of claims 1 to 10.