What is Claimed is:

1. A pipe joint comprising:

first and second joint members having fluid channels communicating with each other;

a sealing device configured to seal an abutting portion between the both joint members; and

a nut configured to couple the joint members with respect to each other, wherein

the nut is formed with a Co-P alloy metal coating on an inner surface thereof.

2. The pipe joint according to Claim 1, wherein a fluorine coating is applied on the surface of the alloy metal coating.

3. The pipe joint according to Claim 1 or 2, wherein

the sealing device includes a gasket and a retainer configured to hold the gasket and fitted to retainer storage depressions provided respectively on abutting end surfaces of the both joint members,

inner peripheral surfaces of the retainer storage depressions of the respective joint members include large-diameter inner periphery portions on the side of the abutting end surfaces and small-diameter inner periphery

portions on axially opposite sides thereof,

the retainer includes a cylindrical retainer body having an outer diameter substantially equal to the diameters of the small-diameter inner periphery portions of the retainer storage depressions, an annular projecting portion formed integrally with the retainer body, and an annular groove opening to an outer peripheral surface of the annular projecting portion, and

a resilient ring configured to cause the joint member to hold the retainer is fitted to the annular groove of the retainer.

What is Claimed is:

1. A pipe joint for preventing a generation of fine particles comprising:

first and second joint members having fluid channels communicating with each other;

a sealing device configured to seal an abutting portion between the both joint members; and

a nut configured to couple the joint members with respect to each other, wherein the nut is formed with a Co—P alloy metal coating on an inner surface thereof,

wherein a fluorine coating is applied on the surface of the Co—P alloy metal coating;

a thickness of the Co—P alloy metal coating ranges from 0.1 μm to 10 μm;

a P content for the Co—P alloy is 3% to 10%;

the fluorine coating is polytetrafluoroethylene; and

a thickness of the fluorine coating ranges from 10 nm to 1 μm.

2. A pipe joint for preventing a generation of fine particles comprising:

first and second joint members having fluid channels communicating with each other;

a sealing device configured to seal an abutting portion between the both joint members; and

a nut configured to couple the joint members with respect to each other, wherein the nut is formed with a Co—P alloy metal coating on an inner surface thereof,

wherein a fluorine coating is applied on the surface of the Co—P alloy metal coating,

a thickness of the Co—P alloy metal coating ranges from 0.1 μm to 10 μm,

a P content for the Co—P alloy is 3% to 10%,

the fluorine coating is polytetrafluoroethylene,

a thickness of the fluorine coating ranges from 10 nm to 1 μm,

the sealing device includes a gasket and a retainer configured to hold the gasket and fitted to retainer storage depressions provided respectively on abutting end surfaces of the both joint members,

inner peripheral surfaces of the retainer storage depressions of the respective joint members include large-diameter inner periphery portions on the side of the abutting end surfaces and small-diameter inner periphery portions on axially opposite sides thereof,

the retainer includes a cylindrical retainer body having an outer diameter substantially equal to the diameters of the small-diameter inner periphery portions of the retainer storage depressions, an annular projecting portion formed integrally with the retainer body, and an annular groove opening to an outer peripheral surface of the annular projecting portion, and

a resilient ring configured to cause the joint member to hold the retainer is fitted to the annular groove of the retainer,

wherein in a state after tightening, end surfaces of outer peripheral portions of the respective joint members forming respective outer peripheral walls of the retainer storage depressions are in contact with each other.