

# SS 204Cu, Type 204Cu, UNS S20430, AISI 204Cu, WNR 1.4597

## Introduction :

Aesteiron continues to expand its product line in UNS S20400 to meet the emerging customer needs, and whereas Aesteiron Steels Pvt. Ltd. is ISO 9001 : 2008 Certified, ASPL has a great Projects in this grade in all parts of the world with renowned suppliers presenting the wide range of services. We pride ourselves in the quality of our products, our competitive pricing and our exceptional customer service. We have been recognized for our outstanding customer service in satisfaction surveys of top- ranked mills in india and all over the world. ASPL, with iron and steel as its main business, manufactures premium steel products with high technologies and a high added value and fosters three major product categories, namely carbon steel, stainless steel and special steel. Through our worldwide marketing network, these premium products not only satisfy the demand on the domestic market but are also exported to more than forty countries and regions in Asia, Africa, Europa and America, extensively applied to various. We are a highly qualified by our customers worldwide as a sustainable and trustworthy to meet their request and need at the right time and the right time and the right area. We strive and stand committed to maintain this respectable position by catering to the requirements of our customers in the best possible way leaving no room for complaints.

## Products Available

### in forms :

- SS 204Cu, Type 204Cu, UNS S20430, AISI 204Cu Plates
- SS 204Cu, Type 204Cu, UNS S20430, AISI 204Cu Pipes
- SS 204Cu, Type 204Cu, UNS S20430, AISI 204Cu Round Bar
- SS 204Cu, Type 204Cu, UNS S20430, AISI 204Cu Tube
- SS 204Cu, Type 204Cu, UNS S20430, AISI 204Cu Flanges
- SS 204Cu, Type 204Cu, UNS S20430, AISI 204Cu Wire
- SS 204Cu, Type 204Cu, UNS S20430, AISI 204Cu Fittings

## Chemical Composition

	SS 204Cu	Type 204Cu	UNS S20430	AISI 204Cu	WNR 1.4597
Carbon	0.15max	0.15max	0.15max	0.15max	0.15max
Manganese	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0
Phosphorus	0.060max	0.060max	0.060max	0.060max	0.060max
Sulfur	0.030max	0.030max	0.030max	0.030max	0.030max
Silicon	1.00max	1.00max	1.00max	1.00max	1.00max
Chromium	15.50-17.50	15.50-17.50	15.50-17.50	15.50-17.50	15.50-17.50
Nickel	1.50-3.50	1.50-3.50	1.50-3.50	1.50-3.50	1.50-3.50
Nitrogen*	0.05-0.25	0.05-0.25	0.05-0.25	0.05-0.25	0.05-0.25
Molybdenum	1.00max	1.00max	1.00max	1.00max	1.00max
Copper	2.00-4.00	2.00-4.00	2.00-4.00	2.00-4.00	2.00-4.00
Iron	Bal	Bal	Bal	Bal	Bal

## Standard Available

### in forms :

- ASTM A182/ ASME SA182 Stainless Steel Pipe Fittings
- ASTM A213 / ASME SA213 Seamless Stainless Steel Pipes
- ASTM A240/ ASME SA240 Stainless Steels Sheets / Plates
- ASTM A249/ ASME SA249 Stainless Steel Welded Tubes
- ASTM A269/ ASME SA269 Stainless Steel Tubes
- ASTM A270/ ASME SA270 Stainless Steel Sanitary Tubes
- ASTM A312/ ASME SA312 Stainless Steel Pipes
- ASTM A403/ ASME SA403 Stainless Steel Pipe Fittings
- ASTM A554/ ASME SA554 Stainless Steel Welded Tubes
- ASTM A731/ ASME SA731 Stainless Steel Pipes
- ASTM A789/ ASME SA789 Stainless Steel Tubes

## Mechanical Properties

	SS 204Cu	Type 204Cu	UNS S20430	AISI 204Cu	WNR 1.4597
Tensile Strength, ksi (Mpa)	92(635)	92(635)	92(635)	92(635)	92(635)
Yield Strength, ksi (Mpa)	42(290)	42(290)	42(290)	42(290)	42(290)
Elongation %	75	75	75	75	75
Reduction in Area %	77	77	77	77	77

- ASTM A790/ ASME SA790 Stainless Steel Pipes
- ASTM A791/ ASME SA791 Stainless Steel Tubes

## Annealing

- Type 204 is soaked at 1038-1121°C (1900-2050°F) followed by rapid quenching in water or air.

## Welding

- Type 204 is a nitrogen strengthened and austenitic steel possessing high strength and corrosion resistance.
- This alloy can be readily welded and is non-magnetic even after rough forming operations.

## Forging

- Type 204 is heated to 1093°C (2000°F), soaked and again heated to 1176°C (2150°F) and finally equalized before being forged.

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## Forming

- In the forming process, Type 204 need not be pre-heated.
- Commonly used forming techniques can be used to form this alloy.

## Machinability

- Commonly used machining techniques can be used for Type 204.
- Good machining results can be obtained based on the utilization of resulfurized lubricant and positive and slow speeds.
- Breakers and curlers are used in the welding process due to the thready and tough texture of the chips.

## Hardening

- Type 204 can be hardened through a cold working process and hardening will not take place when this alloy is exposed to thermal treatment.

## Applications

- Type 204 is commonly used in hose clamps, sewage plant structures, fasteners, handling equipment for bulk solids and structural components in transportation equipment.



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