

## SS 429, Type 429, WNR 1.4001, UNS S42900, AISI 429, Grade 429

### Introduction :

Stainless steel 429 is a ferritic stainless steel with a little lower chromium content than that of type 430. It is suitable for applications which involves fairly mild corrosive environments. It can be used as forged parts where strength is not a factor and when corrosive conditions warrant, since it cannot be hardened by heat treatment. In 1400-1500°F parts should be uniformly heated, soaked and air cooled. Soaking in the temperature range particularly around 885 - 900°F - or slowly cooling through the range - should be avoided to prevent 885 embrittlement. This embrittlement is thought to be due to precipitation of high-chromium ferrite. This alloy can be successfully welded by the shielded fusion and resistance welding methods. Oxyacetylene welding is not recommended since carbon pickup may occur. 430 Type filler metal could be used here, and a post-weld anneal is recommended.

### Chemical Composition

	SS 429	TYPE 429	WNR 1.4001	UNS S42900	AISI 429	GRADE 429
Carbon	0.12 max	0.12 max	0.12 max	0.12 max	0.12 max	0.12 max
Manganese	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max
Phosphorus	0.040 max	0.040 max	0.040 max	0.040 max	0.040 max	0.040 max
Sulfur	0.030 max	0.030 max	0.030 max	0.030 max	0.030 max	0.030 max
Silicon	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max
Chromium	14.0-16.0	14.0-16.0	14.0-16.0	14.0-16.0	14.0-16.0	14.0-16.0
Chromium	Bal	Bal	Bal	Bal	Bal	Bal

### Mechanical Properties

	SS 429	TYPE 429	WNR 1.4001	UNS S42900	AISI 429	GRADE 429
Tensile Strength [Mpa] psi	{490} 71068	{490} 71068	{490} 71068	{490} 71068	{490} 71068	{490} 71068
0..2% Yield Strength, ksi	{310} 44961	{310} 44961	{310} 44961	{310} 44961	{310} 44961	{310} 44961
Elongation in 2" [50mm], %	30	30	30	30	30	30
Reduction in Area, %	-	-	-	-	-	-
Hardness, Rockwell B	88 max	88 max	88 max	88 max	88 max	88 max

### Products Available in forms :

- SS 429, Type 429, WNR 1.4001, UNS S42900 Plates
- SS 429, Type 429, WNR 1.4001, UNS S42900 Pipes
- SS 429, Type 429, WNR 1.4001, UNS S42900 Round Bar
- SS 429, Type 429, WNR 1.4001, UNS S42900 Tube
- SS 429, Type 429, WNR 1.4001, UNS S42900 Flanges
- SS 429, Type 429, WNR 1.4001, UNS S42900 Wire
- SS 429, Type 429, WNR 1.4001, UNS S42900 Fittings

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

## Applications

- Grade 429 stainless steel is applied in construction of internal decoration and household gadgets.



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