

## C71500 Copper Nickel Flanges ANSI B16.5/B16.47 Slip On ASTM B151

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: Kasugai
- Certification: ISO PED AD2000
- Model Number: C71500 ANSI B16.5/B16.47 SO
- Minimum Order Quantity: Negotiable
- Price: Negotiable
- Packaging Details: Seaworthy Packing
- Delivery Time: 30 - 60 working days
- Payment Terms: L/C, T/T
- Supply Ability: 200 ton per month



### Product Specification

- Product Name: ASTM B151 C71500 ANSI B16.5/B16.47 Copper Nickel Slip-On (SO) Flanges
- Size Range: 1/2" To 48"
- Thickness: Sch10S To Sch160
- Pressure Class: Class 150, 300, 400, 600, 900, 1500, 2500
- Standards: ASTM B151, ASME/ANSI B16.5/B16.47, JIS B2220
- Face Type: Slip-on (SO)
- Highlight: **C71500 Copper Nickel Flanges, C71500 ANSI Slip On Flange, Slip On Copper Nickel Flanges**

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## Product Description

### ASTM B151 C71500 ANSI B16.5/B16.47 Copper Nickel Slip-On (SO) Flanges

#### Product Information

<b>Product Name</b>	<b>ASTM B151 C71500 ANSI B16.5/B16.47 Copper Nickel Slip-On (SO) Flanges</b>
Size Range	1/2" to 48"
Pressure Class	150, 300, 400, 600, 900, 1500, 2500,
Thickness	Sch10S to Sch160
Standards	ASME/ANSI B16.5/B16.47, JIS B2220
Type	Slip-On (SO)
Dimensions	ASME/ANSI B16.5/B16.47, Custom Drawings
Origin	China

#### Standards & Materials: ASTM B151

#### Chemical Composition of ASTM B151 (%)

UNS	C	Ni	Pb	Fe	Mn	Zn	P	S	C
C70600	Remainder	9.0-11.0	0.05	1.0-1.8	1.0	1.0			
C71500	Remainder	29.0-33.0	0.05	0.40-1.0	1.0	1.0			

#### Mechanical Properties of ASTM B151 C71500

Tempe r Code	Dia. or Distance Between Parallel Surfaces (mm)		Tensile Strengt h, min (MPa)	Yield Strength at 0.5%Extensio n Under Load, min (MPa)	Elongation in 4xDia or Thickness of Specimen, min (%)
O60, M30	Round, Hex and Octagonal rods and square bars	Up to 12, incl	360	125	30
		Over 12 to 25, incl	330	125	30
		Over 25	310	125	30
H01	Round, Hex and Octagonal rods and square bars	Up to 12, incl	450	345	10
		Over 12 to 25, incl	415	310	15
		Over 25 to 80, incl	380	240	20
		Over 80 to 125, incl	310	125	20
H04		Up to 12, incl	550	415	8
		Over 12 to 25, incl	515	400	10
		Over 25 to 50, incl	485	380	10
O60	Rectangular bars and shapes	All sizes	310	105	30
H04	Rectangular bars	Up to 12, incl	515	380	7
		Over 12 to 25, incl	485	345	10
H04	Shapes	All sizes	(As agreed upon between the manufacturer or supplier and the purchaser)		

#### Flange Type: Slip On (SO)

Slip on flange also simplified as SO flange. SO flanges slip over pipes and are designed to fit slightly bigger on the inside than the pipe. They connect to the pipe through a fillet weld at the flange top and bottom. It is used to insert the pipe into the inner hole of flange, as the flange inner diameter is little bigger than the pipe's outer diameter, pipe and flange could be connected by lap welding at the top and bottom of the flange.

The slip on flange is shorter in length than a weld neck flange, and is used in areas where short tie-ins are necessary or space limitations necessitate its use. Generally, the life span of a slip-on flange connection is about one-third that of the weld neck flange. Despite of additional welding involved during installation, its lower initial cost makes the SO flange preferred over WN flanges by many users. It is generally used in non-corrosive, non-critical, moderate pressure services. Slip on flanges of Class 150 and Class 300 are most commonly seen in utility engineering.

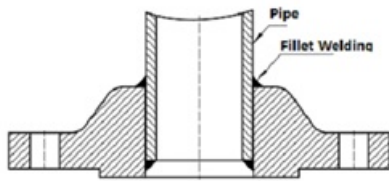


Illustration of welding a pipe to a slip-on flange conforming to ASME B16.5: two fillet welds shall be furnished.



A sample picture of a slip on flange

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