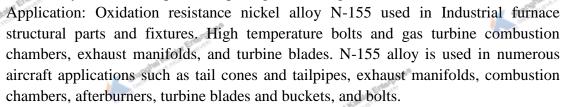


SHANGHAI KATALOR ENTERPRISES CO., LTD.

Tel:0086-21-61182423 Website:www.katalor.com

N155/ N-155 High temperature strength nickel alloy steel material

Nickel-based N155 alloy has a long history, back to 1950, of high strength at temperatures up to 1500 F and is capable of sustaining moderate loading at temperatures of 2000 F. It has good oxidation resistance at high temperature and also possesses good corrosion resistance to sulfuric acid (at room temperature) and to nitric acid. High temperature strength derives directly from the chemical composition of the alloy and is not dependent upon age hardening.



Forming by cold working is preferred and the high strength N155 nickel alloy has good ductility. It does work harden and may require a solution heat treatment to restore ductility during cold forming.

				Yiel	ld		
Test		Tens	sile	Stre	ngth	%	%
Tempe	rature	Stre	ngth	0.29	%	Elongation	Reduction
		P		Offs	set	in 2"	of Area
F	C	ksi	MPa	ksi	MPa	stangtar.	180
Room	Room	118	314	59	407	40 💎	50
1000	538	93	641	44	303	37	48
1200	649	80	552	42	290	35	47
1400	760	60	414	38	262	35	42
1600	871	38	262	26	179	37	42
1800	982	19	131	18	124	38	50
2000	1093	10	69			45	60

Typical Mechanical Properties for N-155 nickel alloy (Tensile Properties).

Typical Mechanical Properties for N155 nickel alloy(Stress Rupture Properties)

Test Temperature	:	Stres	s for Ru	upture	e in		
٩F	T.	10 H	ours	100	Hours	1000	Hours
F	C	ksi	MPa	ksi	MPa	ksi	MPa
1200	649	65	448	52	359	38	262
1350	732	38	262	30	207	23	159
1500	816	26	179	18	124	14	97

Standhall

Standball Calder Fridd



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KATALOR	Tel:0086-	21-611	82423	We	ebsite:	:www.katalor.com
1650 899	18 124	10	69	7	48	
Chemical compositi	on for N-1	55 nicl	kel allo	y		
Element	Min	M	Iax			
Carbon	0.08	3 0	.16			in Ethaptions
Manganese	1.00) 2	.00		inangh	and Fundamental Control of Contro
Silicon		1	.00	1	Same Contract	
Sulfur		0	.03			
Chromium	20.0)2	2.5			Stand
Nickel	19.0) 2	1.0			Least.
Copper	Shangha P	0	.50	_		- million
Tungsten	2.00) 3.	.00		- Note	Alter Enterin
Iron	Bala	ance		10	nangen er er er	
Cobalt	18.5	5 2	1.0	and the second		6
Columbium*	0.75	5 1.	.25	-		the Father
Nitrogen	0.10	0	.20	_		States
Molybdenum	2.50) 3	.50	-		~
Phosphorus	A 100	0	.04	_	torpil	(e ^{nⁿ}
Nickel-based N155 /	N-155 allo	by Spec	ificatio	ns:	alor Enterior	
Round bar steel:dia	mm to 200)0mm		and second		
Square-shape steel: 5	0mm to	600mm	n			Estarphone
Plate steel thickness:		800m	nm			Starophy Lander -
Width: 10mm to 150	- darp.	.1 1	1 .1			
Length: We can supp Forging: Shafts with						1
Tubing: OD: φ6-219			-		- C	-
Finished goods cond				P	-	
tempering/ quenchin			States of States	0		C C c
Surface conditions: s		100	g finish)/grou	und/rou	ugh machining/ fine
machining						Standing
		essing:	electro	de arc	+ LF/	/VD/VOD/ESR/Vacuum
consumable electrod						
Ultrasonic inspection			9700		•	-
e		. di	Contraction of the second			make sure the fast delivery
uine and snipment. A	Inyway, if	you wa	nt to fir	ia nig	n stren	ngth N155 nickel alloy

ONCE BELIEVE, TRUST FOREVER!

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please contact us. We will give you the N155 competitive price, N-155 alloy good quality and best service from us.

