



# Henan Investment Mechanical Equipment Co., Ltd.

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## Casting Price Assessment

### 1. Basic Materials

Carbon steel. Alloy steel. Spring steel. Bearing steel. Tooling steel. Stainless steel. Heat resistant steel.

### 2. Casting Base Price

No.	Materials Category	Base Price ( \$ )	Manufacturing process
1	carbon steel	4.5USD per KG	Silica sol process
2	alloy steel	4.8USD per KG	Silica sol process
3	spring steel	5.1USD per KG	Silica sol process
4	bearing steel	7.3USD per KG	Silica sol process
5	tool steel	9.1USD per KG	Silica sol process
6	stainless steel	10.5USD per KG	Silica sol process
7	heat resistant steel	12.3USD per KG	Silica sol process

### 3. Finished product prices estimation

3.1 According to the base price of the determined casting, and the analysis of affecting factors of the costs, adjust the base price, finally, get the estimated price of castings.

3.2 According to those six different circumstances: Complexity k1、Accuracy k2、Blank Weight k3、Production volume k4、Processing requirements k5、Casting Yield k6, divide level of the casting, and determine factors that affect the price of the casting.

Finished Product Price Formula:  $G = S \times k1 \times k2 \times k3 \times k4 \times k5 \times k6$

$$S = [(C+M)(1.00+L)]/(1-R)$$

G — Price of casting; S —Casting benchmark price; k1 ~ k6 —factors of casting floating price; C —Manufacturing cost; M —Operating costs; L —Casting margins ( % ) ; R —Sales tax ( % ) 。

Appendix I: Carbon and Low Alloy Steels.

Appendix II: Steel Specific.

Appendix III: Heat resistant steel.

**Appendix I: Carbon and Low Alloy Steels**

ASTM A 27-91	Carbon-Steel Castings for General Application.
ASTM A 148-90	High-Strength Steel Castings for Structural Purposes.
ASTM A 216-89	Carbon-Steel Castings Suitable for Fusion Welding for High-Temperature Service.
ASTM A 217-91	Martensitic Stainless and Alloy Steel Castings for Pressure-Containing Parts Suitable for High-Temperature Service.
ASTM A 352-89	Ferritic and Martensitic Steel Castings for Pressure-Containing Parts Suitable for Low-Temperature Service.
ASTM A 426-91	Centrifugally Cast Ferritic Alloy Steel Pipe for High-Temperature Service.
ASTM A 487-89a	Steel Castings Suitable for Pressure Service.
ASTM A 597-87	Cast Tool Steel
ASTM A 660-91a	Centrifugally Cast Carbon Steel Pipe for High-Temperature Service.
Carbon and Low Alloy Steels	

**Chemical Composition % -- Maximum**

(unless range is given)

Specification	Mechanical Properties-Minimum												
Specification And Grade	Tensile Strength ksi	Yield Point ksi	Elong. in 2"%	Red of Area	C	Mn	P	S	Si	Ni	Cr	Mo	Other Elements
<b>ASTM A27-93</b>													
N-1	--	--	--	--	0.25	0.75	0.05	0.06	0.8	--	--	--	--
N-2	--	--	--	--	0.35	0.6	0.05	0.06	0.8	--	--	--	--
U-60-30	60	30	22	30	0.25	0.75	0.05	0.06	0.8	--	--	--	--
60-30	60	30	24	35	0.3	0.6	0.05	0.06	0.8	--	--	--	--
65-35	65	35	24	35	0.3	0.7	0.05	0.06	0.8	--	--	--	--
70-36	70	36	22	30	0.35	0.7	0.05	0.06	0.8	--	--	--	--
70-40	70	40	22	30	0.25	1.2	0.05	0.06	0.8	--	--	--	--
<b>ASTM A148-93b</b>													
80-40	80	40	18	30	--	--	0.05	0.06	--	--	--	--	--
80-50	80	50	22	35	--	--	0.05	0.06	--	--	--	--	--
90-60	90	60	20	40	--	--	0.05	0.06	--	--	--	--	--
105-85	105	85	17	35	--	--	0.05	0.06	--	--	--	--	--
115-95	115	95	14	30	--	--	0.05	0.06	--	--	--	--	--
130-115	130	115	11	25	--	--	0.05	0.06	--	--	--	--	--
135-125	135	125	9	22	--	--	0.05	0.06	--	--	--	--	--
150-135	150	135	7	18	--	--	0.05	0.06	--	--	--	--	--
160-145	160	145	6	12	--	--	0.05	0.06	--	--	--	--	--
<b>ASTM A216-93</b>													
WCA	60	30	24	35	0.25	0.7	0.04	0.045	0.6	--	--	--	--
WCB	70	36	22	35	0.3	1	0.04	0.045	0.6	--	--	--	--
WCC	70	40	22	35	0.25	1.2	0.04	0.045	0.6	--	--	--	--
<b>ASTM A217-93</b>													
WC1	65	35	24	35	0.25	.50-.80	0.04	0.045	0.6	--	--	.45-.65	--
WC4	70	40	20	35	.05-.20	.50-.80	0.04	0.045	0.6	.70-1.10	.50-.80	.45-.65	--

Specification	Mechanical Properties-Minimum												
Specification And Grade	Tensile Strength ksi	Yield Point ksi	Elong. in 2"%	Red of Area	C	Mn	P	S	Si	Ni	Cr	Mo	Other Elements
WC5	70	40	20	35	.05-.20	.40-.70	0.04	0.045	0.6	.60-1.00	.50-.90	.90-1.20	--
WC6	70	40	20	35	.05-.20	.50-.80	0.04	0.045	0.6	--	1.00-1.50	.45-.65	--
WC9	70	40	20	35	.05-.18	.40-.70	0.04	0.045	0.6	--	2.00-2.75	.90-1.20	--
C5	90	60	18	35	0.2	.40-.70	0.04	0.045	0.75	--	4.00-6.50	.45-.65	--
C12	90	60	18	35	0.2	.35-.65	0.04	0.045	1	--	8.00-10.00	.90-1.20	--
CA15	90	65	18	30	0.15	1	0.04	0.04	1.5	1	11.5-14.0	0.5	--
<b>ASTM A352-93**</b>													
LCA	60	30	24	35	0.25	0.7	0.04	0.045	0.6	--	--	--	--
LCB	65	35	24	35	0.3	1	0.04	0.045	0.6	--	--	--	--
LCC	70	40	22	35	0.25	1.2	0.04	0.045	0.6	--	--	--	--
LC1	65	35	24	35	0.25	.50-.80	0.04	0.045	0.6	--	--	.45-.65	--
LC2	70	40	24	35	0.25	.50-.80	0.04	0.045	0.6	2.00-3.00	--	--	--
LC2-1	105	80	18	30	0.22	.55-.75	0.04	0.045	0.5	2.50-3.50	1.35-1.85	.30-.60	--
LC3	70	40	24	35	0.15	.50-.80	0.04	0.045	0.6	3.00-4.00	--	--	--
LC4	70	40	24	35	0.15	.50-.80	0.04	0.045	0.6	4.00-5.00	--	--	--
LC9	85	75	20	30	0.13	0.9	0.04	0.045	0.45	8.50-10.0	0.5	0.2	Cu?. 30, 燬?. 03
CA6NM	110	80	15	35	0.06	1	0.04	0.03	1	3.5-4.5	11.5-14.0	.4-1.0	--
<b>ASTM A426-92+</b>													
CP1	65	35	24	35	0.25	.30-.80	0.04	0.045	.10-.50	--	--	.44-.65	--
CP2	60	30	22	35	.10-.20	.30-.61	0.04	0.045	.10-.50	--	.50-.81	.44-.65	--
CP5	90	60	18	35	0.2	.30-.70	0.04	0.045	0.75	--	4.00-6.50	.45-.65	--
CP5b	60	30	22	35	0.15	.30-.60	0.04	0.045	1.00-2.00	--	4.00-6.00	.45-.65	--
CP9	90	60	18	35	0.2	.30-.65	0.04	0.045	.25-1.00	--	8.00-10.00	.90-1.20	--
CP11	70	40	20	35	.05-.20	.30-.80	0.04	0.045	0.6	--	1.00-1.50	.44-.65	--
CP12	60	30	22	35	.05-.15	.30-.61	0.04	0.045	0.5	--	.80-1.25	.44-.65	--
CP15	60	30	22	35	0.15	.30-.60	0.04	0.045	.15-1.65	--	--	.44-.65	--
CP21	60	30	22	35	.05-.15	.30-.60	0.04	0.045	0.5	--	2.65-3.35	.80-1.06	--
CP22	70	40	20	35	.05-.15	.30-.70	0.04	0.045	0.6	--	2.00-2.75	.90-1.20	--

Specification	Mechanical Properties-Minimum												
Specification And Grade	Tensile Strength ksi	Yield Point ksi	Elong. in 2"%	Red of Area	C	Mn	P	S	Si	Ni	Cr	Mo	Other Elements
CPCA15	90	65	18	30	0.15	1	0.04	0.04	1.5	--	11.5-14.0	0.5	--
<b>ASTM A487-93</b>													
1B	90	65	22	45	0.3	1	0.04	0.045	0.8	--	--	--	V .04-.12
1C+	90	65	22	45	0.3	1	0.04	0.045	0.8	--	--	--	V .04-.12
2A	85	53	22	35	0.3	1.00-1.40	0.04	0.045	0.8	--	--	.10-.30	--
2B	90	65	22	40	0.3	1.00-1.40	0.04	0.045	0.8	--	--	.10-.30	--
2C+	90	65	22	40	0.3	1.00-1.40	0.04	0.045	0.8	--	--	.10-.30	--
4A	90	60	18	40	0.3	1	0.04	0.045	0.8	.40-.80	.40-.80	.15-.30	--
4B	105	85	17	35	0.3	1	0.04	0.045	0.8	.40-.80	.40-.80	.15-.30	--
4C+	90	60	18	35	0.3	1	0.04	0.045	0.8	.40-.80	.40-.80	.15-.30	--
4D+	100	75	17	35	0.3	1	0.04	0.045	0.8	.40-.80	.40-.80	.15-.30	--
4E	115	95	15	35	0.3	1	0.04	0.045	0.8	.40-.80	.40-.80	.15-.30	--
6B	120	95	12	25	.05-.38	1.30-1.70	0.04	0.045	0.8	.40-.80	.40-.80	.30-.40	--
													V .03-.10
7A	115	100	15	30	.05-.20	.60-1.00	0.04	0.045	0.8	.70-1.00	.40-.80	.40-.60	B .002-.006
													Cu .15-.50
8A	85	55	20	35	.05-.20	.50-.90	0.04	0.045	0.8	--	2.00-2.75	.90-1.10	--
8B	105	85	17	30	.05-.20	.50-.90	0.04	0.045	0.8	--	2.00-2.75	.90-1.10	--
8C+	100	75	17	35	.05-.20	.50-.90	0.04	0.045	0.8	--	2.00-2.75	.90-1.10	--
9A	90	60	18	35	.05-.33	.60-1.00	0.04	0.045	0.8	--	.75-1.10	.15-.30	--
9B	105	85	16	35	.05-.33	.60-1.00	0.04	0.045	0.8	--	.75-1.10	.15-.30	--
9C+	90	60	18	35	.05-.33	.60-1.00	0.04	0.045	0.8	--	.75-1.10	.15-.30	--
9D+	100	75	17	35	.05-.33	.60-1.00	0.04	0.045	0.8	--	.75-1.10	.15-.30	--
10A	100	70	18	35	0.3	.60-1.00	0.04	0.045	0.8	1.40-2.00	.55-.90	.20-.40	--
10B	125	100	15	35	0.3	.60-1.00	0.04	0.045	0.8	1.40-2.00	.55-.90	.20-.40	--
11A	70	40	20	35	.05-.20	.50-.80	0.04	0.045	0.6	.70-1.10	.50-.80	.45-.65	--
12A	70	40	20	35	.05-.20	.40-.70	0.04	0.045	0.6	.60-1.00	.50-.90	.90-1.20	--

Specification	Mechanical Properties-Minimum												
Specification And Grade	Tensile Strength ksi	Yield Point ksi	Elong. in 2"%	Red of Area	C	Mn	P	S	Si	Ni	Cr	Mo	Other Elements
CA6NMA	110	80	15	35	0.06	1	0.04	0.03	1	3.5-4.5	11.5-14.0	.4-1.0	--
CA15B	90	65	18	30	0.15	1	0.04	0.04	1.5	1	11.5-14.0	0.5	--
CA15C+	90	60	18	35	0.15	1	0.04	0.04	1.5	1	11.5-14.0	0.5	--
<b>ASTM A597-87</b>													
CA-2	--	--	--	--	.95-1.05	0.75	0.03	0.03	1.5	--	4.75-5.50	.90-1.40	V 0.20-.50
CD-2	--	--	--	--	1.40-1.60	1	0.03	0.03	1.5	--	11.00-13.00	.70-1.20	V and Co
CS-5	--	--	--	--	.50-.65	.60-1.00	0.03	0.03	1.75-2.25	--	0.35	.20-.80	V 0.35
CS-7	--	--	--	--	.45-.55	.40-.80	0.03	0.03	.60-1.00	--	3.00-3.50	1.20-1.60	--
CH-13	--	--	--	--	.30-.42	0.75	0.03	0.03	1.5	--	4.75-5.75	1.25-1.75	V .75-1.20
CO-1	--	--	--	--	.85-1.00	1.00-1.30	0.03	0.03	1.5	--	.40-1.00	--	V and W
<b>ASTM A660-91a</b>													
WCA	60	30	24	35	0.25	.70(a)	0.035	0.035	0.6	--	--	--	
WCB	70	36	22	35	0.3	1	0.035	0.035	0.6	--	--	--	
WCC	70	40	22	35	0.25	.20(b)	0.035	0.035	0.6	--	--	--	

**Notes:**

\* ASTM A27 Class 1 requiring post-weld heat treatment on all welds is standard from AMERICAN CENTRIFUGAL. Class 2, which does not require post-weld heat treatment of welds, is not available.

\*\* Impacts (Ft.-Lbs.) to be mutually agreed upon.

+See specification for maximum Brinell hardness after final heat treatment.

The latest revision of a specification shall take precedence in which case the chemical composition may vary from that shown above.

See the Annual Book of ASTM Standards, Section 1, Volume 01.01 and 01.02 for complete details of the specifications.

AMERICAN also produces material to other ASTM specifications such as A356.

Appendix II:

Material	China	Russer	USA	England	Japan	France	Germany
	GB	ГОСТ	ASTM	BS	JIS	NF	DIN
	08F	08КП	1006	040A04	S09CK		C10
	08	08	1008	045M10	S9CK		C10
	10F		1010	040A10		XC10	
	10	10	1010,1012	045M10	S10C	XC10	C10,CK10
	15	15	1015	095M15	S15C	XC12	C15,CK15
Carbon	20	20	1020	050A20	S20C	XC18	C22,CK22
Steel	25	25	1025		S25C		CK25
	30	30	1030	060A30	S30C	XC32	
	35	35	1035	060A35	S35C	XC38TS	C35,CK35
	40	40	1040	080A40	S40C	XC38H1	
	45	45	1045	080M46	S45C	XC45	C45,CK45
	50	50	1050	060A52	S50C	XC48TS	CK53
	55	55	1055	070M55	S55C	XC55	
	60	60	1060	080A62	S58C	XC55	C60,CK60
	15Mn	15Г	1016,1115	080A17	SB46	XC12	14Mn4
	20Mn	20Г	1021,1022	080A20		XC18	
	30Mn	30Г	1030,1033	080A32	S30C	XC32	
	40Mn	40Г	1036,1040	080A40	S40C	40M5	40Mn4
	45Mn	45Г	1043,1045	080A47	S45C		
	50Mn	50Г	1050,1052	030A52	S53C	XC48	
				080M50			
	20Mn2	20Г2	1320,1321	150M19	SMn420		20Mn5
	30Mn2	30Г2	1330	150M28	SMn433H	32M5	30Mn5
	35Mn2	35Г2	1335	150M36	SMn438(H)	35M5	36Mn5
	40Mn2	40Г2	1340		SMn443	40M5	
Alloy	45Mn2	45Г2	1345		SMn443		46Mn7
Steel	50Mn2	50Г2				~55M5	
	20MnV						20MnV6
	35SiMn	35СГ		En46			37MnSi5
	42SiMn	35СГ		En46			46MnSi4
	40B		TS14B35				
	45B		50B46H				
	40MnB		50B40				
	45MnB		50B44				
	15Cr	15X	5115	523M15	SCr415(H)	12C3	15Cr3
	20Cr	20X	5120	527A19	SCr420H	18C3	20Cr4
	30Cr	30X	5130	530A30	SCr430		28Cr4
	35Cr	35X	5132	530A36	SCr430(H)	32C4	34Cr4
	40Cr	40X	5140	520M40	SCr440	42C4	41Cr4
	45Cr	45X	5145,5147	534A99	SCr445	45C4	
	38CrSi	38XC					
	12CrMo	12XM		620CR.B		12CD4	13CrMo44
	15CrMo	15XM	A-387Cr . B	1653	STC42	12CD4	16CrMo44
					STT42		
					STB42		
	20CrMo	20XM	4119,4118	CDS12	SCT42	18CD4	20CrMo44
				CDS110	STT42		
					STB42		
	25CrMo		4125	En20A		25CD4	25CrMo4
	30CrMo	30XM	4130	1717COS110	SCM420	30CD4	
	42CrMo		4140	708A42	?	42CD4	42CrMo4
				708M40			
	35CrMo	35XM	4135	708A37	SCM3	35CD4	34CrMo4
	12CrMoV	12XMΦ					
	12Cr1MoV	12X1MΦ					13CrMoV42
	25Cr2Mo1VA	25X2M1ΦA					
	20CrV	20XΦ	6120				22CrV4

	40CrV	40XΦA	6140				42CrV6
	50CrVA	50XΦA	6150	735A30	SUP10	50CV4	50CrV4
	15CrMn	15XГ, 18XГ					
	20CrMn	20XГCA	5152	527A60	SUP9		
	30CrMnSiA	30XГCA					
	40CrNi	40XH	3140H	640M40	SNC236		40NiCr6
	20CrNi3A	20XH3A	3316			20NC11	20NiCr14
	30CrNi3A	30XH3A	3325	653M31	SNC631H		28NiCr10
			3330		SNC631?		
	20MnMoB		80B20				
	38CrMoAlA	38XMIOA		905M39	SACM645	40CAD6.12	41CrAlMo07
	40CrNiMoA	40XHMA	4340	871M40	SNCM439		40NiCrMo22
Spring	60	60	1060	080A62	S58C	XC55	C60
Steel	85	85	C1085	080A86	SUP3		
			1084				
	65Mn	65Г	1566				
	55Si2Mn	55C2Г	9255	250A53	SUP6	55S6	55Si7
	60Si2MnA	60C2ГA	9260	250A61	SUP7	61S7	65Si7
			9260H				
	50CrVA	50XΦA	6150	735A50	SUP10	50CV4	50CrV4
Bearing	GCr9	ШX9	E51100		SUJ1	100C5	105Cr4
Steel			51100				
	GCr9SiMn				SUJ3		
	GCr15	ШX15	E52100	534A99	SUJ2	100C6	100Cr6
			52100				
	GCr15SiMn	ШX15CГ					100CrMn6
	Y12	A12	C1109		SUM12		
	Y15		B1113	220M07	SUM22		10S20
	Y20	A20	C1120		SUM32	20F2	22S20
	Y30	A30	C1130		SUM42		35S20
	Y40Mn	A40Г	C1144	225M36		45MF2	40S20
	ZGMn13	116Г13Ю			SCMnH11	Z120M12	X120Mn12
	T7	y7	W1-7		SK7,SK6		C70W1
	T8	y8			SK6,SK5		
Tooling	T8A	y8A	W1-0.8C			1104Y175	C80W1
Steel	T8Mn	y8Г			SK5		
	T10	y10	W1-1.0C	D1	SK3		
	T12	y12	W1-1.2C	D1	SK2	Y2 120	C125W
	T12A	y12A	W1-1.2C			XC 120	C125W2
	T13	y13			SK1	Y2 140	C135W
	8MnSi						C75W3
	9SiCr	9XC		BH21			90CrSi5
	Cr2	X	L3				100Cr6
Alloy	Cr06	13X	W5		SKS8		140Cr3
Tooling	9Cr2	9X?	L?				100Cr6
Steel	金 W	B1	F1	BF1	SK21		120W4
	Cr12	X12	D3	BD3	SKD1	Z200C12	X210Cr12
	Cr12MoV	X12M	D2	BD2	SKD11	Z200C12	X165CrMoV46
	9Mn2V	9Г2Φ	02			80M80	90MnV8
	9CrWMn	9XBГ	01		SKS3	80M8?	
	CrWMn	XBГ	07		SKS31	105WC13	105WCr6
	3Cr2W8V	3X2B8Φ	H21	BH21	SKD5	X30WC9V	X30WCrV93
	5CrMnMo	5XГM			SKT5		40CrMnMo7
	5CrNiMo	5XHM	L6		SKT4	55NCDV7	55NiCrMoV6
	4Cr5MoSiV	4X5MΦC	H11	BH11	SKD61	Z38CDV5	X38CrMoV51
	4CrW2Si	4XB2C			SKS41	40WCDS35-12	35WCrV7
	5CrW2Si	5XB2C	S1	BSi			45WCrV7

	W18Cr4V	P18	T1	BT1	SKH2	Z80WCV	S18-0-1
High						18-04-01	
speed	W6Mo5Cr4V2	P6M3	N2	BM2	SKH9	Z85WDCV	S6-5-2
tooling						06-05-04-02	
steel	W18Cr4VCo5	P18K5Φ2	T4	BT4	SKH3	Z80WKCV	S18-1-2-5
						18-05-04-01	
	W2Mo9Cr4VCo8		M42	BM42		Z110DKCWV	S2-10-1-8
						09-08-04-02-01	
	1Cr18Ni9	12X18H9	302	302S25	SUS302	Z10CN18.09	X12CrNi188
			S30200				
	Y1Cr18Ni9		303	303S21	SUS303	Z10CNF18.09	X12CrNiS188
			S30300				
	0Cr19Ni9	08X18H10	304	304S15	SUS304	Z6CN18.09	X5CrNi189
stainless			S30400				
	00Cr19Ni11	03X18H11	304L	304S12	SUS304L	Z2CN18.09	X2CrNi189
steel			S30403				
	0Cr18Ni11Ti	08X18H10T	321	321S12	SUS321	Z6CNT18.10	X10CrNiTi189
			S32100	321S20			
	0Cr13Al		405	405S17	SUS405	Z6CA13	X7CrAl13
			S40500				
	1Cr17	12X17	430	430S15	SUS430	Z8C17	X8Cr17
			S43000				
	1Cr13	12X13	410	410S21	SUS410	Z12C13	X10Cr13
			S41000				
	2Cr13	20X13	420	420S37	SUS420J1	Z20C13	X20Cr13
			S42000				
	3Cr13	30X13		420S45	SUS420J2		
	7Cr17		440A		SUS440A		
			S44002				
	0Cr17Ni7Al	09X17H7IO	631		SUS631	Z8CNA17.7	X7CrNiAl177
			S17700				
	2Cr23Ni13	20X23H12	309	309S24	SUH309	Z15CN24.13	
	?		S30900				
	2Cr25Ni21	20X25H20C2	310	310S24	SUH310	Z12CN25.20	CrNi2520
heat			S31000				
resistant	0Cr25Ni20		310S		SUS310S		
steel			S31008				
	0Cr17Ni12Mo2	08X17H13M2T	316	316S16	SUS316	Z6CND17.12	X5CrNiMo1810
			S31600				
	0Cr18Ni11Nb	08X18H12E	347	347S17	SUS347	Z6CNNb18.10	X10CrNiNb189
			S34700				
	1Cr13Mo				SUS410J1		
	1Cr17Ni2	14X17H2	431	431S29	SUS431	Z15CN16-02	X22CrNi17
			S43100				
	0Cr17Ni7Al	09X17H7IO	631		SUS631	Z8CNA17.7	X7CrNiAl177
			S17700				



Appendix III:

Heat Resistant Cast Steel														
CAST ALLOY	SIMILAR WROUGHT DESIGNATION	SPECIFICATION	UNS No.	C(%)	Cr(%)	Ni(%)	Mo(%)	Cu(%)	Fe(%)	Cb(%)	Other(%)	Tensile(ksi)	Yield(ksi)	Elong.
CA6NM	415	ASTM-A743, A487	J91540	0.06	11.5-14.0	3.5-4.5	.4-1.0	---	---	---	---	110,000	80,000	15.00%
CA15	410	ASTM-A217,A743	J91150	0.15	11.5-14.0	1	0.5	0.5	---	---	---	90,000	65,000	18.00%
CB7Cu-1	17-4 PH	ASTM-A747 AMS-5398C	J92180	0.06	15.5-17.7	3.6-4.6	---	2.5-3.2	.15-.35	---	---	135,000 H1100 Condition	110,000	9.00%
CF3	304L	ASTM-A351 A743, A744	J92500	0.03	17.0-21.0	8.0-12.0	0.5	---	---	---	Mn 1.50	70,000	30,000	35.00%
CF3MN	316LN	ASTM-A743,A351	J92804	0.03	18.0-21.0	9.0-12.0	2.0-3.0	1	20	---	N- 0.10-0.20	70,000	30,000	30.00%
CF3M	316L	ASTM-A351 A743, A744	J92800	0.03	17.0-21.0	9.0-13.0	2.0-3.0	---	---	---	---	70,000	30,000	30.00%
CF8	304	ASTM-A351 A743, A744	J92600	0.08	18.0-21.0	8.0-11.0	0.5	---	---	---	Mn 1.50	70,000	30,000	35.00%
CF8C	347	ASTM-A351 A743, A744	J92710	0.08	18.0-21.0	9.0-12.0	---	---	---	8xC-1.0	---	70,000	30,000	30.00%
CF8M	316	ASTM-A351 A743, A744	J92900	0.08	18.0-21.0	9.0-12.0	2.0-3.0	---	---	---	Mn 1.50	70,000	30,000	30.00%
CG3M	317L	ASTM-A351 A743 , A744	---	0.03	18.0-21.0	9.0-13.0	3.0-4.0	---	---	---	---	75,000	35,000	25.00%
CG8M	317	ASTM-A351 A743 , A744	J93000	0.08	18.0-21.0	9.0-13.0	3.0-4.0	---	---	---	---	75,000	35,000	25.00%
CN7M	Alloy 20	ASTM-A351 A743, A744	N08007	0.07	19.0-22.0	27.5-30.5	2.0-3.0	3.0-4.0	---	---	---	62,000	25,000	35.00%
CX2MW	Hastelloy C-22	ASTM A494	N26022	0.02	20.0-22.5	BAL	12.5-14.5	---	2.0-6.0	---	W-2.5-3.5	80,000	45,000	30.00%
CW2M	Hastelloy C4C	ASTM-A494	N26455	0.02	15.0-17.5	BAL	15.0-17.5	---	2	---	---	72,000	40,000	20.00%
CW6M	HastelloyC Modified	ASTM-A494	N30107	0.07	17.0-20.0	BAL	17.0-20.0	---	---	---	---	72,000	40,000	25.00%
CW6MC	Inconel 625	ASTM-A494 MIL-C-24615	N26625	0.06	20.0-23.0	BAL	8.0-10.0	---	5	3.15-4.5	---	70,000	40,000	25.00%
CW12MW	Hastelloy C	ASTM-A494	N30002	0.12	15.5-17.5	BAL	16.0-18.0	---	4.5-7.5	---	W-3.75-5.25	72,000	40,000	4.00%
	Hastelloy C-276	Same as above except C-.02									V-.20-.40			
CY40	Inconel 600	ASTM-A494	N06040	0.4	14.0-17.0	BAL	---	---	11	---	---	70,000	28,000	30.00%
CZ100	Cast Nickel	ASTM-A494	N02100	1	1.5	95.0 min.	---	1.25	3	---	---	50,000	18,000	10.00%
N7M	HastelloyB modified	ASTM-A494	N30007	0.07	1	BAL	30.0-33.0	---	3	---	---	76,000	40,000	20.00%

N12MV	Hastelloy B	ASTM-A494	N30012	0.12	1	BAL	26.0-30.0	---	4.0-6.0	---	---	76,000	40,000	6.00%
M35-1	Monel 400	ASTM-A494	N24135	0.12	---	BAL	---	26.0-33.0	0.3-0.5	0.5	---	65,000	25,000	25.00%
M35-2	Monel	ASTM-A494	N04020	0.35	---	BAL	---	26.0-33.0	0.3-0.5	0.5	---	65,000	30,000	25.00%
M35-B	H-Monel	QQ-N-288 Comp B	N24030	0.3	---	BAL	---	27.0-33.0	0.2-0.5	---	Si 2.7-3.7	100,000	60,000	10.00%
M35-C	Monel	QQ-N-288 Comp C	N24025	0.2	---	BAL	---	27.0-31.0	0.2-0.5	---	Si 3.3-3.7	120,000	80,000	10.00%
M35-D	S-Monel	QQ-N-288 Comp D	N24025	0.25	---	BAL	---	27.0-31.0	0.2-0.5	---	Si 3.5-4.5	---	---	---
M30C	Weldable Monel	ASTM-A494	N24130	0.3	---	BAL	---	26.0-33.0	0.3-0.5	---	Cb 1.0-3.0	65,000	32,500	25.00%
954	Aluminum-Bronze	ASTM-B148	C95400	---	---	1.5 max	---	83.0 min	3.0-5.0	---	Al 10.0-11.5	75,000	30,000	12.00%
955	Aluminum-Bronze	ASTM-B148	C95500	---	---	3.0-5.5	---	78.0 min	3.0-5.0	---	Al 10.0-11.5	90,000	40,000	6.00%
958	Ni-Al-Brz	ASTM-B148	C95800	0.15	---	4.0-5.0	---	78.0 Min	3.0-4.5	---	Al 8.5-9.5 Pb .03 max	85,000	35,000	15.00%
964	70-30 Copper-Nickel	ASTM-B369	C96400	0.15	---	28.0-32.0	---	BAL	.25-1.5	---	Mn 1.5 max	60,000	32,000	20.00%
CD4MCu	Duplex Grade 1A	ASTM-A351	J93370	0.04	24.5-26.5	4.75-6.0	1.75-2.25	2.75-3.25	BAL	---	N 0.10-0.25	100,000	70,000	16.00%
	1B	A743 , A744												
CE8MN	Duplex Grade 2A	ASTM-A890	J93345	0.08	22.5-25.5	8.0-11.0	3.00-4.50	---	BAL	---	N 0.10-0.30	95,000	65,000	25.00%
CD6MN	Duplex Grade 3A	ASTM-A890	J93371	0.06	24.0-27.0	4.0-6.0	1.75-2.50	---	BAL	---	N-0.15-0.25	95,000	65,000	25.00%
CD3MN	Duplex Grade 4A	ASTM-A890	J92205	0.03	21.0-23.5	4.5-6.5	2.5-3.5	1.00 max	BAL	---	N 0.10-0.30	90,000	60,000	25.00%
CE3MN	Duplex Grade 5A	ASTM-A890	J93404	0.03	24.0-26.0	6.0-8.0	4.0-5.0	---	BAL	---	N 0.10-0.03	100,000	75,000	18.00%
CD3MWCuN	Grade 6A Zeron100	ASTM-A890	J93380	0.03	24.0-26.0	6.5-8.5	3.0-4.0	0.5-1.0	BAL	---	N 0.02-0.03 W 0.5-1.0	100,000	65,000	25.00%
CN2MCuN	904L	ASTM-A351	N08904	0.02	19.0-23.0	23.0-28.0	4.0-5.0	1.0-2.0	BAL	---	Mn 2.0 max	65,000	28,000	35.00%
CK3MCuN	Avesta 254-SMO	ASTM-A351	S31254	0.025	19.5-20.5	17.5-19.5	6.00-7.00	0.50-1.00	BAL	---	Mn 1.20	80,000	38,000	35.00%
		A-743, A-744												
CN3MN	AL6XN	ASTM-A351	N08367	0.025	20.0-22.0	23.5-25.5	6.0-7.0	0.75	BAL	---	Mn 2.00	80,000	38,000	35.00%
		A743, A744												
HH	309 (25-12)	ASTM-A297	J93503	0.20-0.50	24.0-28.0	11.0-14.0	0.05	1	BAL	---	Mn 2.00	75,000	35,000	10.00%
HK	310 (25-20)	ASTM-A297	J94224	0.20-0.60	24.0-28.0	18.0-22.0	0.05	1	BAL	---	Mn 2.00	65,000	35,000	10.00%

HN	HI-35	ASTM-A297	J94213	0.20-0.50	19.0-23.0	23.0-27.0	0.05	1	BAL	---	Mn 2.00	63,000	---	8.00%
HT	330 (15-35)	ASTM-A297	N08605	0.35-0.75	15.0-19.0	33.0-37.0	0.05	1	BAL	---	Mn 2.00	65,000	---	4.00%
HU	(19-39)	ASTM-A297	N08004	0.35-0.75	17.0-21.0	37.0-41.0	0.5	1	BAL	---	Mn 2.00	65,000	---	4.00%
HX	ACI HX	ASTM-A297	N06006	0.35-0.75	15.0-19.0	64.0-68.0	0.05	1	BAL	---	Mn 2.00	60,000	---	---

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