



WIRE AND STEEL COMPANY INC.
3050 N. Great Southwest Pkwy
Grand Prairie, TX 75050

Certificate Of Analysis

GULF COAST SPRING CO
PO BOX 430938
HOUSTON, TX 77243

BDSO-02500-01

PO: 123290

GWS NUM:	1010577-04
GIBBS SALES NUM:	31535/00
DATE SHIPPED:	12/05/16
CUST PO NUM:	14116
QTY SHIPPED:	23.50

DESCRIPTION: .0350 +/- .0008 GIBBSCOTE INCONEL X-750 SPRING TMPR WIRE

HEAT NUMBER: 217743

MILL COIL ID:

GIBBS COIL ID:

GIBBS PO NUM: 049516

TO CERTIFY THAT THE MATERIAL SHIPPED AGAINST YOUR ABOVE ORDER NUMBER IS IN ACCORDANCE WITH
SPECIFICATION: AMS 5699 NACE MR0175

C:	.0300	Mn:	.0400	P:	.0040	Sul:	<	.0010
Si:	.0600	Cr:	15.6500	Ni:	71.1400	Mo:		
Co:	.0200	Cu:	.0200	N2:		Fe:		8.5500
Ti:	2.6200	Al:	.7500	Be:		W:		
Zn:		Sn:		Pb:		Cb:		.8500
Ta:	<	.0100	V:		B	.0040		

PRE-HEAT				POST-HEAT			
	MIN	MAX		MIN	MAX		
TENSILE STRENGTH:	219,460	219,460		274,170	274,170		
YIELD STRENGTH:	209,830	209,830		266,380	266,380		
GRAIN:							
ELONGATION % IN 2":	5.4700			3.1300			
ROCKWELL HARDNESS:				RC 46			
REDUCTION OF AREA	21.5500			21.5500			
COUNTRY OF:	Melt: USA			Origin/MFG: USA			
DFAR:	Y	Mercury Free:	Y	ROHS:	Y	WRAP:	Y

GERARD DANIEL WORLDWIDE / CASPH 154,400

Maribel Hernandez
CERTIFICATION CLERK

TEL: 800-788-8114

4-4.8-1