

Certificate of Conformance



Houston Plating & Coatings, LLC.
Houston Plating & Coatings, LLC.
Electroless Nickel Plating / Spray Coatings

1301 Georgia St.
South Houston, TX 77587
Phone: (713) 946-8920
Fax: (713) 946-8487
www.houstonplating.com

Customer:	P. O. Number:	Order No:
B & T OILFIELD PRODUCTS	603489	563343
BFBF-02500-09		7
BFBF-03000-06		6
BIHB-02250-09		13
BIHB-02310-09		7
BIHB-02750-09		13
BIHB-03680-09		4
BIHB-01865-09		7
BIHO-01865-09		13
FBPM-02310-09		4
FBPN-02750-09		4
GBBO-01870-09		6
GBBO-02250-09		8
GBBO-02560-09		4
GBBO-02750-09		7
GBBO-03688-09		5
RBPM-02250-09		4
RBPM-02750-09		4
XLEM-01875-09		100
XLEM-01875-09		100

3" 9Cr1Mo



By John at 11:20 am, Jul 06, 2017

Grade		Batch No.		Heat No.		Size		Pieces		Bundles		Weight (MT)		Total Length(FT)		Manufacture Process		Delivery Condition														
9Cr-1Mo		H617068550		7050285M		3"		31		4		6.38		589.924		EAF+LF+VD+1C		quenched and tempered														
Chemical Composition (Wt %)																																
	C	Mn	Si	P	S	Cr	Ni	Mo	Cu	W	Al	V	Nb	Ti	Ca	B	As	Sn	Pb	Sb	Zn	Zr	Co	Cd	[N]	[O]	[H]	DI	Hard factor	CEV /CEQ		
Min	0.09	0.30	0.25	0	0	8.00	0	0.90	0																							
Max	0.15	0.50	0.60	0.020	0.010	10.00	0.50	1.10	0.25																							
Ladle	0.12	0.44	0.36	0.009	0.004	8.74	0.22	0.95	0.04																							
Product1																																
Product2																																
Macrostructure Examination(Level)					Non-metallic inclusion (Level)								K4 Method Oxides		Ds		Microstructure		Jominy Test (ASTM A255 HRC-1/16 inch)					Hydrostatic Pressure Test			Drift result		Dimensional inspection		Visual examination	
S		R		C		A		B		C		D		Grain Size		Decarburizing Layer		time					pressure		conclusion		Drift result		Dimensional inspection		Visual examination	
						T	H	T	H	T	H	T	H																			

Note: (1) No impermissible macro-structural defects, such as flakes, subsurface bubbles and pipes are available. This material is free from mercury and radioactivity. No welding repair is allowed.
(2) When there is any complaint, you are kindly requested to mark the Steel Grade, Heat No., Size, Delivery Date, Causes and reserve the material in the condition of delivery.
(3) Our company's quality management system has been certified by TÜV SÜD for fulfilling all requirements of ISO 9001:2008, ISO/TS 16949.
(4) Straightening: cold rotary straightening

Signature of quality assurance manager: ZhangZhiCheng
Date: 2017-05-27

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Process Date: 10/27/2017

Expiration Date: NA

Process Required: QPQ- Liquid Nitriding

To Spec: HPC Proc 11.0 Rev 10

Manufacture DELAMIN

Batch No: 102717

Cure Time/Temp: 1075°F FOR 2HRS


DFT: NA

ENPMils: NA

Notes:

KQ500: 750°F FOR 30 MIN.
VISUAL INSPECTION: PASS

Quality, Assurance Manual Rev: 15 Date: 07/2017

DATE: 10/27/2017 SIGNATURE: 

Country of Origin: U.S.A.

Alberto Landois