







Werks-Nr. Works-No. No de l'usine	<i>A08</i> 3869938	Zeugnis-Nr. Certificate-No. No de certificat	<i>A03</i> 1710403001	Sendungs-Nr. Shipment-No. No de envoi	45406018	Seite-Nr. Page-No. Page No	1																																																																																																										
ThyssenKrupp Steel Europe AG · 47161 Duisburg			<i>A01</i>	BESCHEINIGUNG ÜBER MATERIALPRÜFUNGEN DOCUMENT ON MATERIAL TESTS DOCUMENT DE CONTROL DES MATERIAUX		EN 10204 EN 10204 EN 10204																																																																																																											
<i>A06</i> THYSSENKRUPP MATERIALS VIETNAM QUANG MINH INDUSTRIAL ZON VN 142200 ME LINH DISTR			<i>A02</i> INSPECTION CERTIFICATE 3.1																																																																																																														
Bestell-Nr. Order-No. No de commande	PO-IND-2014-1013			 29.9.2015  0203 52 75220  0203 52 75213  abnahme_zeugnisse.grobblech@thyssenkrupp.com	to																																																																																																												
<i>A07.1-A07.5</i>						<i>A05</i>																																																																																																											
Werkstoff ; Quality ; Matériau / Lieferbedingungen ; Specification ; Conditions de livraison <i>B02/B03</i>																																																																																																																	
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Kennzeichnung: MATERIAL, HEAT-NO., MANUFACTURING/SAMPLE-NO. Marking: Marque: <i>B06</i>				Zeichen des Lieferwerkes: Supplier's mark: Marque d'usine:				 																																																																																																									
<p><i>B01</i> TYPE OF PRODUCT HEAVY PLATES, TRIMMED EDGES, SHOT BLASTED/COATED, BOTH SIDES</p> <p>LIST OF MATERIAL IDENTENTS</p> <table border="1"> <thead> <tr> <th>ITEM</th> <th><i>B07</i> BUNDLE</th> <th><i>B07</i> PLATE-NO.</th> <th><i>B07</i> HEAT-NO.</th> <th><i>B08</i> NUMBER PIECES</th> <th><i>B13</i> WEIGHT Kg</th> </tr> </thead> <tbody> <tr> <td rowspan="4">002</td> <td><i>B09</i> x <i>B10</i> x <i>B11</i> 6,0 x 1500,0 x 6000 [mm]</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>90891203</td> <td>664441</td> <td>1</td> <td>0.461</td> </tr> <tr> <td></td> <td>90870305</td> <td>664444</td> <td>1</td> <td>0.461</td> </tr> <tr> <td></td> <td></td> <td></td> <td>*</td> <td>2</td> <td>0.922</td> </tr> <tr> <td></td> <td></td> <td></td> <td>**</td> <td>2</td> <td>0.922</td> </tr> </tbody> </table> <p>TRANSPORT-NO. MADISON MAER</p> <p>CHEMICAL COMPOSITION OF THE LADLE SAMPLES % <i>C71-C99</i></p> <table border="1"> <thead> <tr> <th><i>B07</i> HEAT NO.</th> <th>C</th> <th>SI</th> <th>MN</th> <th>P</th> <th>S</th> <th>AL-G</th> <th>B-G</th> <th>CR</th> <th>CU</th> <th>MO</th> <th>NB</th> </tr> </thead> <tbody> <tr> <td>664441</td> <td>,140</td> <td>,220</td> <td>1,140</td> <td>,006</td> <td>,0010</td> <td>,087</td> <td>,0022</td> <td>,230</td> <td>,040</td> <td>,010</td> <td>,022</td> </tr> <tr> <td>664444</td> <td>,140</td> <td>,190</td> <td>1,130</td> <td>,008</td> <td>,0010</td> <td>,090</td> <td>,0023</td> <td>,240</td> <td>,030</td> <td>,010</td> <td>,023</td> </tr> <tr> <td></td> <td>NI</td> <td>TI</td> <td>V</td> <td>CE1</td> <td>CE2</td> <td colspan="6"></td> </tr> <tr> <td>664441</td> <td>,050</td> <td>,005</td> <td>,000</td> <td>,38</td> <td>,27</td> <td colspan="6"></td> </tr> <tr> <td>664444</td> <td>,030</td> <td>,005</td> <td>,000</td> <td>,38</td> <td>,27</td> <td colspan="6"></td> </tr> </tbody> </table> <p>CE1=C+MN/6+ (CR+MO+V) / 5+ (NI+CU) / 15 CE2=C+ (MN+MO) / 10+ (CR+CU) / 20+NI / 40</p> <p><i>C70</i> HEAT PROCESS OXYGEN STEEL</p>								ITEM	<i>B07</i> BUNDLE	<i>B07</i> PLATE-NO.	<i>B07</i> HEAT-NO.	<i>B08</i> NUMBER PIECES	<i>B13</i> WEIGHT Kg	002	<i>B09</i> x <i>B10</i> x <i>B11</i> 6,0 x 1500,0 x 6000 [mm]						90891203	664441	1	0.461		90870305	664444	1	0.461				*	2	0.922				**	2	0.922	<i>B07</i> HEAT NO.	C	SI	MN	P	S	AL-G	B-G	CR	CU	MO	NB	664441	,140	,220	1,140	,006	,0010	,087	,0022	,230	,040	,010	,022	664444	,140	,190	1,130	,008	,0010	,090	,0023	,240	,030	,010	,023		NI	TI	V	CE1	CE2							664441	,050	,005	,000	,38	,27							664444	,030	,005	,000	,38	,27						
ITEM	<i>B07</i> BUNDLE	<i>B07</i> PLATE-NO.	<i>B07</i> HEAT-NO.	<i>B08</i> NUMBER PIECES	<i>B13</i> WEIGHT Kg																																																																																																												
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664441	,140	,220	1,140	,006	,0010	,087	,0022	,230	,040	,010	,022																																																																																																						
664444	,140	,190	1,130	,008	,0010	,090	,0023	,240	,030	,010	,023																																																																																																						
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MECHANICAL CHARACTERISTICS I M P A C T T E S T

B07 HEAT- NO.	C00 SAMPLE NO.	C01/ 02		B05 STAT.	C40 TYPE	C41 B mm	C03 AGED	C03 TEST- TEMP. °C	C42 1	C42 2	C42 3	C43 M
		POSIT	STAT.									
664441	*90793	0401	0016	0007	6,00	0006	-20		45	48	49	47
664444	*22651	0401	0016	0007	10,00	0006	-20		33	30	80	48

MECHANICAL CHARACTERISTICS H A R D N E S S T E S T

B07 HEAT- NO.	C00 SAMPLE NO.	B05 STAT.	C30 METHOD	C32 AVERAGE	C32 AVERAGE
664441	*90793	0016	HARDNESSTEST BRINELL	397,0	
664444	*22651	0016	HARDNESSTEST BRINELL	385,0	

* SAMPLE PLATE NOT INCLUDED IN DELIVERY

L E G E N D S

0016 = HARDENED	0401 = TRANS. TOP S.
0006 = NOT AGED	0007 = CHARPY- V

S T A T U S P R O D U C T

002 HARDENED

Z02
ABNAHMEBEAUFTRAGTER DES HERSTELLERS
THE MANUFACTURER'S AUTHORIZED INSPECTION REPRESENTATIVE
LE REPRÉSENTANT AUTORISÉ DU CONTRÔLEUR DU PRODUCTEUR



Z03 Prof. Dr.-Ing. Kern

ThyssenKrupp Steel Europe AG

Abnahme

Es wird bestätigt, dass die Lieferung den Vereinbarungen bei der Bestellung entspricht.

We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order.

Nous attestons que les produits livrés sont conformes aux stipulations de la commande.

201





Werks-Nr. Works-No. No de l'usine	A08 3869938	Zeugnis-Nr. Certificate-No. No de certificat	A03 1710404001	Sendungs-Nr. Shipment-No. No de envoi	45406018	Seite-Nr. Page-No. Page-No	1			
ThyssenKrupp Steel Europe AG · 47161 Duisburg A01				BESCHEINIGUNG ÜBER MATERIALPRÜFUNGEN DOCUMENT ON MATERIAL TESTS DOCUMENT DE CONTROL DES MATERIAUX		EN 10204 EN 10204 EN 10204				
A06 THYSSENKRUPP MATERIALS VIETNAM QUANG MINH INDUSTRIAL ZON VN 142200 ME LINH DISTR				A02 INSPECTION CERTIFICATE 3.1						
Bestell-Nr. Order-No. No de commande	PO-IND-2014-1013			29.9.2015 0203 52 75220 0203 52 75213 abnahme_zeugnisse.grobblech@thyssenkrupp.com	to		A05			
A07.1-A07.5										
Werkstoff ; Quality ; Matériau / Lieferbedingungen ; Specification ; Conditions de livraison B02/B03 XAR450 TKS-WBL 710 06.14 TOL.EN10029 KL.C/N OB EN 10163 KL.A/1										
Kennzeichnung: MATERIAL, HEAT-NO., MANUFACTURING/SAMPLE-NO. Marking: Marque: B06				Zeichen des Lieferwerkes: Supplier's mark: Marque d'usine:						
B01 TYPE OF PRODUCT HEAVY PLATES, TRIMMED EDGES, SHOT BLASTED/COATED, BOTH SIDES										
LIST OF MATERIAL IDENTENTS										
ITEM	B07 BUNDLE	B07 PLATE-NO.	B07 HEAT-NO.	B08 NUMBER PIECES	B13 WEIGHT					
003	B09 x B10 x B11 4,0 x 1500,0 x 6000 [mm]	94474203	666097	1	Kg 0.329					
				*	1	0.329				
				**	1	0.329				
TRANSPORT-NO. MADISON MAER										
CHEMICAL COMPOSITION OF THE LADLE SAMPLES % C71-C99										
B07	HEAT NO.	C	SI	MN	P	S	AL-G	B-G	CR	MO
	666097	,190	,340	,930	,009	,0010	,085	,0017	,720	,150
C70 HEAT PROCESS								OXYGEN STEEL		
MECHANICAL CHARACTERISTICS HARDNESS TEST										
B07	C00	B05	C30	C32		AVERAGE		AVERAGE		
HEAT-NO.	SAMPLE NO.	STAT.	METHOD	AVERAGE		AVERAGE		THICKNESS		
666097	*80348	0016	HARDNESSTEST BRINELL	439,0				mm		

* SAMPLE PLATE NOT INCLUDED IN DELIVERY

LEGENDS

STAT.
0016 = HARDENED

STATUS PRODUCT

003 HARDENED

Z02

ABNAHMEBEAUFTRAGTER DES HERSTELLERS
THE MANUFACTURER'S AUTHORIZED INSPECTION REPRESENTATIVE
LE REPRÉSENTANT AUTORISÉ DU CONTRÔLEUR DU PRODUCTEUR

Kern

Z03 Prof. Dr.-Ing. Kern

ThyssenKrupp Steel Europe AG

Abnahme








Es wird bestätigt, dass die Lieferung den Vereinbarungen bei der Bestellung entspricht.


We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order.

Z01

Nous attestons que les produits livrés sont conformes aux stipulations de la commande.



Werks-Nr. Works-No. No de l'usine	A08 3944295	Zeugnis-Nr. Certificate-No. No de certificat	A03 1710405001	Sendungs-Nr. Shipment-No. No de envoi	45406018	Seite-Nr. Page-No. Page-No	1
ThyssenKrupp Steel Europe AG · 47161 Duisburg			A01	BESCHEINIGUNG ÜBER MATERIALPRÜFUNGEN		EN 10204	
A06					DOCUMENT ON MATERIAL TESTS		EN 10204
THYSSENKRUPP MATERIALS VIETNAM					DOCUMENT DE CONTROL DES MATERIAUX		EN 10204
QUANG MINH INDUSTRIAL ZON VN 142200 ME LINH DISTR					A02		
					INSPECTION CERTIFICATE 3.1		
Bestell-Nr. Order-No. No de commande	PO-IND-2015-1005			 30.9.2015			51
				 0203 52 75220			
	A07.1-A07.5			 0203 52 75213			A05
				 abnahme_zeugnisse.grobblech@thyssenkrupp.com			
Werkstoff ; Quality ; Matériau / Lieferbedingungen ; Specification ; Conditions de livraison B02/B03							
XAR500 TKS-WBL 704 10.12							
TOL.EN10029 KL.C OB EN 10163 KL.A/1							
Kennzeichnung: MATERIAL, HEAT-NO., MANUFACTURING/SAMPLE-NO.						Zeichen des Lieferwerkes:	
Marking:						Supplier's mark: 	
Marque: B06						A04 Marque d'usine: 	
						ADN-AMPRUEFERSTEMPEL INSPECTOR'S STAMP POINÇON DU RECEPTEAIRE 	
B01							
TYPE OF PRODUCT							
HEAVY PLATES, TRIMMED EDGES, SHOT BLASTED/COATED, BOTH SIDES							
LIST OF MATERIAL IDENTS							
ITEM	B07 BUNDLE	B07 PLATE-NO.	B07 HEAT-NO.	B08 NUMBER PIECES	B13 WEIGHT		
	B09 x	B10 x	B11		Kg		
016	6,0 x	1500,0 x	6000 [mm]				
			82601101	1	0.460		
			82601305	1	0.460		
			82605102	1	0.460		
				*	3	1.380	
017	8,0 x	2000,0 x	6000 [mm]				
			60035203	1	0.810		
			60035204	1	0.810		
				*	2	1.620	
018	10,0 x	1500,0 x	6000 [mm]				
			58970101	1	0.747		
			58970102	1	0.747		
			58971101	1	0.747		
			58971102	1	0.747		
			58971203	1	0.747		
			58971204	1	0.747		
				*	6	4.482	
019	10,0 x	2000,0 x	6000 [mm]				
			60016101	1	0.996		
			60016102	1	0.996		
			60016203	1	0.996		
			60016204	1	0.996		
				*	4	3.984	

Werks-Nr. Works-No. No de l'usine	A08 3944295	Zeugnis-Nr. Certificate-No. No de certificat	A03 1710405001	Sendungs-Nr. Shipment-No. No de envoi	45406018	Seite-Nr. Page-No. Page-No	2	
ITEM	B07 BUNDLE	B07 PLATE-NO.	B07 HEAT-NO.	B08 NUMBER PIECES	B13 WEIGHT			
020	12,0 x 1500,0 x 6000 [mm]	82610101 82610102 82610203 82610305 58953204 58953305 58953306	637655 637655 637655 637655 665127 665127 665127	1 1 1 1 1 1 1	0.870 0.870 0.886 0.870 0.886 0.886 0.886			
				* 7	6.154			
021	12,0 x 2000,0 x 6000 [mm]	60076102	636657	1	1.175			
				* 1	1.175			
				** 23	18.795			
TRANSPORT-NO. MADISON MAER								
CHEMICAL COMPOSITION OF THE LADLE SAMPLES % C71-C99								
B07								
HEAT NO.	C	SI	MN	P	S	B-G	CR	MO
636657	,250	,660	,840	,008	,0010	,0022	,830	,160
637655	,250	,630	,830	,009	,0010	,0026	,840	,160
639117	,240	,630	,830	,012	,0010	,0026	,840	,170
665127	,250	,640	,920	,014	,0010	,0023	,820	,310
667904	,260	,620	,830	,011	,0010	,0022	,820	,160
668916	,250	,650	,820	,008	,0010	,0024	,830	,150
680459	,250	,640	,820	,009	,0010	,0026	,840	,170
C70 HEAT PROCESS OXYGEN STEEL								
B07								
HEAT NO.	AVERAGE OF HEAT							
636657	495 HB							
637655	495 HB							
639117	488 HB							
665127	495 HB							
667904	504 HB							
668916	497 HB							
680459	496 HB							
S T A T U S P R O D U C T								
016- 021	HARDENED							
Z02 ABNAHMEBEAUFTRAGTER DES HERSTELLERS THE MANUFACTURER'S AUTHORIZED INSPECTION REPRESENTATIVE LE REPRÉSENTANT AUTORISÉ DU CONTRÔLEUR DU PRODUCTEUR								
 Z03 Prof. Dr.-Ing. Kern								

ThyssenKrupp Steel Europe AG

Abnahme

Es wird bestätigt, dass die Lieferung den Vereinbarungen bei der Bestellung entspricht.

We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order.

Nous attestons que les produits livrés sont conformes aux stipulations de la commande.

Z01





Werks-Nr. Works-No. No de l'usine	A08 3944295	Zeugnis-Nr. Certificate-No. No de certificat	A03 1710408001	Sendungs-Nr. Shipment-No. No de envoi	45406018	Seite-Nr. Page-No. Page-No	1					
ThyssenKrupp Steel Europe AG · 47161 Duisburg			A01	BESCHEINIGUNG ÜBER MATERIALPRÜFUNGEN DOCUMENT ON MATERIAL TESTS DOCUMENT DE CONTROL DES MATERIAUX		EN 10204 EN 10204 EN 10204						
A06 THYSSENKRUPP MATERIALS VIETNAM QUANG MINH INDUSTRIAL ZON VN 142200 ME LINH DISTR			A02 INSPECTION CERTIFICATE 3.1									
Bestell-Nr. Order-No. No de commande	PO-IND-2015-1005		29.9.2015 0203 52 75220 0203 52 75213 abnahme_zeugnisse.grobblech@thyssenkrupp.com		to		A05					
A07.1-A07.5												
Werkstoff ; Quality ; Matériau / Lieferbedingungen ; Specification ; Conditions de livraison B02/B03 XAR450 TKS-WBL 710 06.14 TOL.EN10029 KL.C OB EN 10163 KL.A/1												
Kennzeichnung: MATERIAL, HEAT-NO., MANUFACTURING/SAMPLE-NO. Marking: Marque: B06				Zeichen des Lieferwerkes: Supplier's mark: Marque d'usine:								
ABNÄHMEPRÜFERSTEMPEL INSPECTOR'S STAMP POINÇON DU RECEPIONNAIRE												
B01 TYPE OF PRODUCT HEAVY PLATES, TRIMMED EDGES, SHOT BLASTED/COATED, BOTH SIDES												
LIST OF MATERIAL IDENTENTS												
ITEM	B07 BUNDLE	B07 PLATE-NO.	B07 HEAT-NO.	B08 NUMBER PIECES	B13 WEIGHT							
023	B09 x 10,0 x	B10 x 1500,0 x	B11 6000 [mm] 58972203	680496	1	Kg						
				*	1	0.747						
				**	1	0.747						
TRANSPORT-NO. MADISON MAER												
CHEMICAL COMPOSITION OF THE LADLE SAMPLES % C71-C99												
B07	HEAT NO.	C	SI	MN	P	S	AL-G	B-G	CR	MO		
	680496	,170	,330	1,000	,015	,0020	,088	,0020	,320	,010		
C70 HEAT PROCESS		OXYGEN STEEL										
MECHANICAL CHARACTERISTICS I M P A C T T E S T												
B07	C00	C01/ 02		B05	C40	C41	C03	C42	C42	C42	C43	
HEAT- NO.	SAMPLE NO.	POSIT	STAT	.TYPE	B mm	AGED	TEST- TEMP. °C		ENERGY [Joule]			
680496	58972	0401	0016	0007	10,00	0006	-20	26	1	2	3	M
												28

MECHANICAL CHARACTERISTICS H A R D N E S S T E S T

B07 HEAT- NO.	C00 SAMPLE NO.	B05 STAT.	C30 METHOD	C32 AVERAGE	AVERAGE THICKNESS mm
680496	58972	0016	HARDNESSTEST BRINELL	432,0	

L E G E N D S

0016 = STAT. HARDENED	0401 = POSIT (IST) TRANS. TOP S.
0006 = AGED NOT AGED	0007 = TYPE IMPACT TEST CHARPY- V

S T A T U S P R O D U C T

023 HARDENED

Z02
ABNAHMEBEAUFTRAGTER DES HERSTELLERS
THE MANUFACTURER'S AUTHORIZED INSPECTION REPRESENTATIVE
LE REPRÉSENTANT AUTORISÉ DU CONTRÔLEUR DU PRODUCTEUR

Kern

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Werkstoff ; Quality ; Matériau / Lieferbedingungen ; Specification ; Conditions de livraison <i>B02/B03</i> XAR400 TKS-WBL 703 06.14 TOL.EN10029 KL.C OB EN 10163 KL.A/1																																																																															
Kennzeichnung: MATERIAL, HEAT-NO., MANUFACTURING/SAMPLE-NO. Marking: Marque: <i>B06</i>				Zeichen des Lieferwerkes: Supplier's mark: Marque d'usine: ThyssenKrupp Steel																																																																											
<p><i>B01</i> TYPE OF PRODUCT HEAVY PLATES, TRIMMED EDGES, SHOT BLASTED/COATED, BOTH SIDES</p> <p>LIST OF MATERIAL IDENTENTS</p> <table border="1"> <thead> <tr> <th>ITEM</th> <th><i>B07</i> BUNDLE</th> <th><i>B07</i> PLATE-NO.</th> <th><i>B07</i> HEAT-NO.</th> <th><i>B08</i> NUMBER PIECES</th> <th><i>B13</i> WEIGHT Kg</th> </tr> </thead> <tbody> <tr> <td>001</td> <td><i>B09</i> x <i>B10</i> x <i>B11</i> 6,0 x 2000,0 x 6000 [mm] 80377102</td> <td></td> <td>637372</td> <td>1</td> <td>0.614</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>* 1</td> <td>0.614</td> </tr> <tr> <td>004</td> <td>10,0 x 1500,0 x 6000 [mm] 60128203</td> <td></td> <td>636498</td> <td>1</td> <td>0.747</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>* 1</td> <td>0.747</td> </tr> <tr> <td>005</td> <td>10,0 x 2000,0 x 6000 [mm] 60015203 60015305 60013101</td> <td></td> <td>636495 636495 636501</td> <td>1 1 1</td> <td>0.996 0.996 0.996</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>* 3</td> <td>2.988</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>** 5</td> <td>4.349</td> </tr> </tbody> </table> <p>TRANSPORT-NO. MADISON MAER</p> <p>CHEMICAL COMPOSITION OF THE LADLE SAMPLES % <i>C71-C99</i></p> <table border="1"> <thead> <tr> <th><i>B07</i> HEAT NO.</th> <th>C</th> <th>SI</th> <th>MN</th> <th>P</th> <th>S</th> <th>AL-G</th> <th>B-G</th> <th>CR</th> <th>CU</th> <th>MO</th> <th>NB</th> </tr> </thead> <tbody> <tr> <td>636495</td> <td>,140</td> <td>,210</td> <td>1,130</td> <td>,010</td> <td>,0010</td> <td>,082</td> <td>,0027</td> <td>,230</td> <td>,060</td> <td>,020</td> <td>,023</td> </tr> </tbody> </table>								ITEM	<i>B07</i> BUNDLE	<i>B07</i> PLATE-NO.	<i>B07</i> HEAT-NO.	<i>B08</i> NUMBER PIECES	<i>B13</i> WEIGHT Kg	001	<i>B09</i> x <i>B10</i> x <i>B11</i> 6,0 x 2000,0 x 6000 [mm] 80377102		637372	1	0.614					* 1	0.614	004	10,0 x 1500,0 x 6000 [mm] 60128203		636498	1	0.747					* 1	0.747	005	10,0 x 2000,0 x 6000 [mm] 60015203 60015305 60013101		636495 636495 636501	1 1 1	0.996 0.996 0.996					* 3	2.988					** 5	4.349	<i>B07</i> HEAT NO.	C	SI	MN	P	S	AL-G	B-G	CR	CU	MO	NB	636495	,140	,210	1,130	,010	,0010	,082	,0027	,230	,060	,020	,023
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B07

HEAT NO.	C	SI	MN	P	S	AL-G	B-G	CR	CU	MO	NE
636498	,140	,190	1,110	,008	,0010	,087	,0024	,230	,050	,030	,021
636501	,140	,240	1,150	,007	,0010	,081	,0024	,230	,060	,020	,025
637372	,140	,210	1,120	,009	,0010	,075	,0023	,220	,040	,020	,024

	NI	TI	V	CE1	CE2
636495	,060	,006	,000	,39	,27
636498	,080	,006	,000	,39	,27
636501	,050	,006	,000	,39	,27
637372	,040	,005	,000	,38	,27

CE1=C+MN/6+(CR+MO+V)/5+(NI+CU)/15
CE2=C+(MN+MO)/10+(CR+CU)/20+NI/40

C70 HEAT PROCESS OXYGEN STEEL

MECHANICAL CHARACTERISTICS I M P A C T T E S T

HEAT- NO.	C00 SAMPLE NO.	C01/ 02 POSIT	B05 STAT.	C40 TYPE	C41 B mm	AGED	C03 TEST- TEMP. °C	C42	C42 ENERGY [Joule]			C43 M
									1	2	3	
636495	*52168	0401	0016	0007	10,00	0006	-20	57	64	23	48	
636498	*48721	0401	0016	0007	10,00	0006	-20	40	24	47	37	
636501	*52992	0401	0016	0007	10,00	0006	-20	51	56	33	47	
637372	*82285	0401	0016	0007	8,00	0006	-20	41	42	50	44	

MECHANICAL CHARACTERISTICS H A R D N E S S T E S T

HEAT- NO.	C00 SAMPLE NO.	B05 STAT.	C30 METHOD	C32 AVERAGE	C30 METHOD	AVERAGE THICKNESS	
						mm	mm
636495	*52168	0016	HARDNESSTEST	BRINELL	383,0		
636498	60128	0016	HARDNESSTEST	BRINELL	399,0		
636501	*52553	0016	HARDNESSTEST	BRINELL	399,0		
637372	*82285	0016	HARDNESSTEST	BRINELL	396,0		

* SAMPLE PLATE NOT INCLUDED IN DELIVERY

L E G E N D S

STAT.	POSIT (IST)
0016 = HARDENED	0401 = TRANS. TOP S.
AGED	TYPE IMPACT TEST
0006 = NOT AGED	0007 = CHARPY- V

S T A T U S P R O D U C T

001,
004,
005
HARDENED

Z02
ABNAHMEBEAUFTRAGTER DES HERSTELLERS
THE MANUFACTURER'S AUTHORIZED INSPECTION REPRESENTATIVE
LE REPRÉSENTANT AUTORISÉ DU CONTRÔLEUR DU PRODUCTEUR

Kern

Z03 Prof. Dr.-Ing. Kern

ThyssenKrupp Steel Europe AG

Abnahme

Es wird bestätigt, dass die Lieferung den Vereinbarungen bei der Bestellung entspricht.

We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order.

Nous attestons que les produits livrés sont conformes aux stipulations de la commande.

Z01

