



ThyssenKrupp VDM GmbH
 A Company of ThyssenKrupp Steel AG

SPECIFICATION
 ASTM B360-08 of 2
PRODUCT
 TITANIUM COIL

PERCEPS (mm) 1
STATE OF DELIVERY Heat treated in inert gas

DIMENSIONS (mm) 0.70 x 1220
WEIGHT (Kg) 970

MATERIAL TEST REPORT
 EN 10204 3.1
 N.: 2010/M005417

Customer Order
 P.O.# 0712/10-00 REV.02 dd
 22/08/2010

CUSTOMER:
 ERLANGER LLC
 46, State Street, 3rd Floor
 Albany, NY 12207
 USA

DATE
 Sep 29, 2010

M.L. (Material Identification Number)		HEAT No		CHEMICAL COMPOSITION (%)								
952118-2		152832		O	Fe	C	N	H	RESIDUALS (%)			
				TOP	BOTTOM	ON THE FINAL PRODUCT				EACH	TOTAL	T1 (%)
		0.25	0.144	0.052	0.153	0.008	0.007	0.005	0.003	<0.07	<0.25	AVANCE
		0.25	0.153	0.055	0.007	0.007	0.003	0.005	0.003	<0.07	<0.25	AVANCE
		0.005	0.005									

MECHANICAL PROPERTIES									
Required values		Y=0.2% [N/mm ²]	Ts [N/mm ²]	E% (min)		Bend test			
Sampling		275-450	> 335	2-20		100° 4x3			
T	T	386	502	28	28	Good	Good		
T	T	323	490	26	26	Good	Good		
C	L	379	494	29	29	Good	Good		
C	L	335	513	28	28				

Sampling: T = Top, C = Bottom
 Direction: L = Longitudinal, T = Transversal

Notes: MATERIAL DIMENSION AND CONDITION WAS SUBMITTED TO AND ACCEPTED BY THE CUSTOMER MILL EDGES

R. Chermant
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