

OUTSTANDING CAPITAL 3.500.000.000 TL

PRODUCTION PLANT ERDEMİR

CUSTOMER YAMETAŞ YASSI METAL MAML.SAN.VE TİC.A.Ş

ORDER NO 24051045475

DIMENSIONS mm 2 X 1500 X C mm

STANDARD & GRADE EN 10130-2006 DC01 (ERDEMİR 6112)

PRODUCT TYPE & DEFINITION CCR : COLD ROLLED, CONTINUOUS ANNEALED (CA) A SURFACE COIL

TECHNICAL SPECIFICATION 24050101795

LOT NO ve ITEM NO

EN 10204 : 2004 TYPE 2.2

CERTIFICATE NO : 24Y000085820

PAGE NO : 1 / 1

COATING WEIGHT(GR/M2) -
AMOUNT OF OIL (MG/M2) 2000
SURFACE ROUGHNESS 0.61-01.9

PRODUCT DESCRIPTION					PRODUCT DESCRIPTION															
Ticket No	Weight(MT) (KG)	Heat No	Coil or Package No	P.S or P.P	TENSILE TEST										BH TEST	HARDNESS	BEND TEST			
					SAMPLE POS. DIR.	YIELD	TENSILE	%	ELON	AG	n-90	R-90	N_AVG	n (10-20)				n (4-6)	Y/T	
1240314484192	13,000	424209	24161652100		TT	N/MM2	N/MM2	N/MM2	A80	346	35.6					BH_YS	BH	BH2	RBM	D

CHEMICAL COMPOSITION, CAST ANALYSIS									
HEAT NO	C	Mn	P	S	SI	Al	%	%	%
424209	0.034	0.034	0.182	0.010	0.008	0.021	0.054		

AE INFORMATION
 Pcm=C+Si/30+Mn/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+5B
 IUW/Cqr=C+Mn/6+(C+Mo+V)/5+(Ni+Cu)/15 Cqr=C+Mn/6
 Ceq=C+((Mn+Si)/6
 UCS: 230C°+190S+75P+45Nb+12.3S+5.4Mn+1
 AE1: Nb=V+Ti
 AE2: Cu=C+Ni
 AE3: Cr+Mo+Ni
 AE5: Al/N
 AE6: Cu+Ni
 AE7: P+S
 AE8: Si+2.SP
 AE9: Ti/N
 AE10: Ti/B
 AE11: Mn/Si
 AE12: Cu+Ni+Cr+Mo+V
 AE13: Mo+Cr
 AE14: C+Cu+Mo
 AE15: Nb+V
 AE16: Nb+V+Ti+B
 AE17: Nb+Ti
 AE18: C+P
 AE19: Mn+Cr+Mo
 AE20: Mn/C
 AE21: 3.4N + 1.5S
 AE22: Al+Si
 AE23: Mn+Si
 AE24: Cu+Ni+Mo
 AE25: C + (Mn/9) + (S/P)/(Ni/10)/(Nb/15)/(Cu/10) (Segregation Index)

WE (THE MANUFACTURER) HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY THE BASIC OXYGEN PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF EN 10130-2006 DC01 (ERDEMİR 6112)

WITH SATISFACTORY RESULTS.

İBRAHİM AKOĞÜMBEK
ENGINEER OF
METALLURGICAL LABORATORY

SERKAN DİKEÇ
QUALITY METALLURGY
MANAGER



OUTSTANDING CAPITAL 3.500.000.000 TL

EN 10204 : 2004 TYPE 2.2

CERTIFICATE NO : 24Y000118243

PRODUCTION PLANT

ERDEMİR

CUSTOMER YAMETAS YASSI METAL MAML.SAN.VE TİC.A.Ş

PAGE NO : 1 / 1

ORDER NO

24081083511

DIMENSIONS mm

2 X 1000 X C mm

STANDARD & GRADE

EN 10130-2006 DC01 (ERDEMİR 6112)

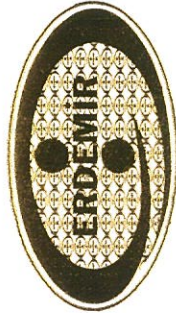
PRODUCT TYPE & DEFINITION

CCR : COLD ROLLED, CONTINUOUS ANNEALED (CA) A SURFACE COIL

TECHNICAL SPECIFICATION

24080103969

LOT NO ve ITEM NO



PRODUCT DESCRIPTION										PRODUCT DESCRIPTION																									
PRODUCT DESCRIPTION										TENSILE TEST																									
SAMPLE POS. DIR.										YIELD		TENSILE		% ELON		AG		R-90		R_AVG		N_AVG		n (10-20)		n (4-6)		Y/T		BH TEST		HARDNESS		BEND TEST	
P.S or P.P										N/MM2		N/MM2		A80														BH_YS		BH		BH2		RBM	
Coil or Package No										271		351		31.2																				D	
Heat No										TT																									
4724113114																																			
9,920																																			
1240314494539																																			

CHEMICAL COMPOSITION, CAST ANALYSIS									
HEAT NO	C	Mn	P	S	SI	AL			
4724113114	0.053	0.171	0.010	0.008	0.012	0.052			

AE INFORMATION
Pcm=C+30*(Mn+Cr)/20+Ni/60+Cu/20+Mo/15+V/10+5B
I1W/Cqt=C+Mn/6+Cr+Mo+V/5+(Ni+Cu)/15 Cqt=C+Mn/6
UCS: 230C°+190S+79P+45NB+12.3S+5.4Mn-1
AE1: Nb+V+Ti AE2: Cu+Cr+Ni
AE3: Cr+Cu+Mo+Ni AE4: Cr+Mo+Ni
AE5: Al/Ni AE6: Cu+Ni
AE7: P+S AE8: Si+2.5P
AE9: Ti/N AE10: Ti/B
AE11: Mn/Si AE12: Cu+Ni+Cr+Mo+V
AE13: Mo+Cr AE14: Cr+Cu+Mo
AE15: Nb+V AE16: Nb+V+Ti+B
AE17: Nb+Ti AE18: C+P
AE19: Mn+Cr+Mo AE20: Mn/C
AE21: 3.4N+1.5S AE22: Al+S
AE23: Mn+Si AE24: Cu+Ni+Mo
AE25: C+(Mn/S)+(5*P)/(Ni/10)+(Mo/S)/(Cu/10) (Segregation Index)

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WITH SATISFACTORY RESULTS.

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