



ERTAŞ METAL SAN. TİC. A.Ş.

KALİTE SERTİFİKASI / QUALITY CERTIFICATE

Karapınar Cad. No:18 34540 Çarşamba/İzmir/TÜRKİYE

Tel: (212)550 4886 - 96 Faks:(212)200 4888 e-mail: info@ertasmetal.com



Müşteri / Customer	BİRLİK METAL
Boyut / Size	16
Mamul Cinsi / Product Type	Yuvarlak Otomat
Üretim No / Production No	S01-13-309
Sevki Tarihi / Date of Delivery	25-01-2013



KİMYASAL KONTROL SONUÇLARI (TS EN 12164) (Chemical Composition)

Program	Quality	Date and Time of Analysis	23.01.2013/10:25
CW614N - CuZn39Pb3			

CJ-20

Zn %	Pb %	Sn %	P %	Mn %	Fe %	Ni %	Si %	Mg %
38.2708	2.5000	0.2931	0.0064	0.0115	0.2942	0.1206	0.0112	0.0011
3.5000	2.8044	0.3000			0.3000	0.3000		
As %	Sb %	Bi %	Al %	B %	Cu %			
0.0111	0.0120	0.0028	0.0379	0.0005	57,0000			
			0,0500		58,1100			
					59,0000			

FİZİKSEL KONTROL SONUÇLARI (Mechanical Test Results)

Özellikler Properties	İstenilen Requirement	Num.Ad Sample Quantity	Bulunan Measurement Values	Sonuç Result
Boyut (mm) Diameter	16 -0,07	2	15,98	Uygun / OK
Sertlik (HB) Hardness	110 - 150 HB	2	138	Uygun / OK
Kopma Mukavemeti Tensile (N/ mm2)	Min. : 430	1	478	Uygun / OK
Kopma Uzaması % Elongation	Min. : 10	1	14	Uygun / OK
Doğruluk Straightness	Max. : 1,0 x L	2	0,25	Uygun / OK

**TESTİ YAPAN
Laborant**

[Handwritten Signature]

**ONAY
Approved By**

**ERTAŞ METAL
SAN. TİC. A.Ş.**