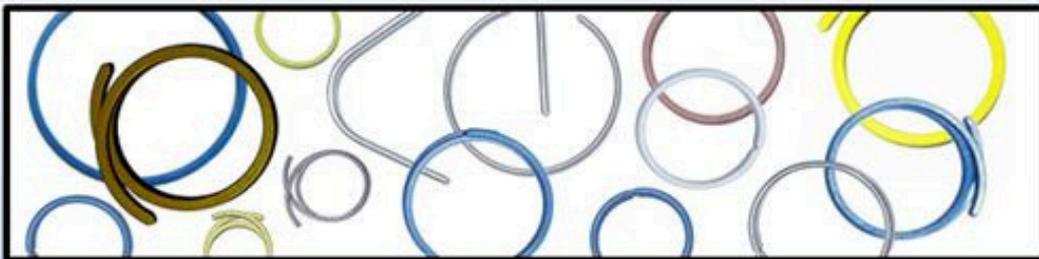


TEKNÖYAY



www.teknoyay.com

teknoyay@teknoyay.com



CERTIFICATE

TEKNOYAY

TEKNOYAY YAY İMALAT SANAYİ VE TİCARET LİMİTED ŞİRKETİ

MİNARELİÇAVUŞ MAH. 105. (290) SOK. NO:4/1
NİLÜFER / BURSA / TÜRKİYE

*Has been assessed and found to comply with the requirements of:
Denetlenmiş ve aşağıdaki standardın gerekliliklerine uygunluğu görülmüştür:*

ISO 9001:2015

*The Quality Management System is applicable to:
Kalite Yönetim Sistemi:*

PRODUCTION AND SALES OF AUTOMOTIVE SIDE INDUSTRY
ROTTING, BALL JOINT FOR RETAINING RING

OTOMOTİV YAN SANAYİ ROT, ROTİL BAŞLARI
İÇİN SEGMAN ÜRETİMİ VE SATIŞI

Certificate Number: QMS-008405
Belge Numarası: QMS-008405

Initial Certification Date: 30.05.2025
İlk Belgelendirme Tarihi: 30.05.2025

Certification Period: 3 Years
Belgelendirme Periyodu: 3 Yıl

Certificate Validity Date: 29.05.2026
Belge Geçerlilik Tarihi: 29.05.2026



ACCREDITED
Management Systems
Certification Body
MSCB-135

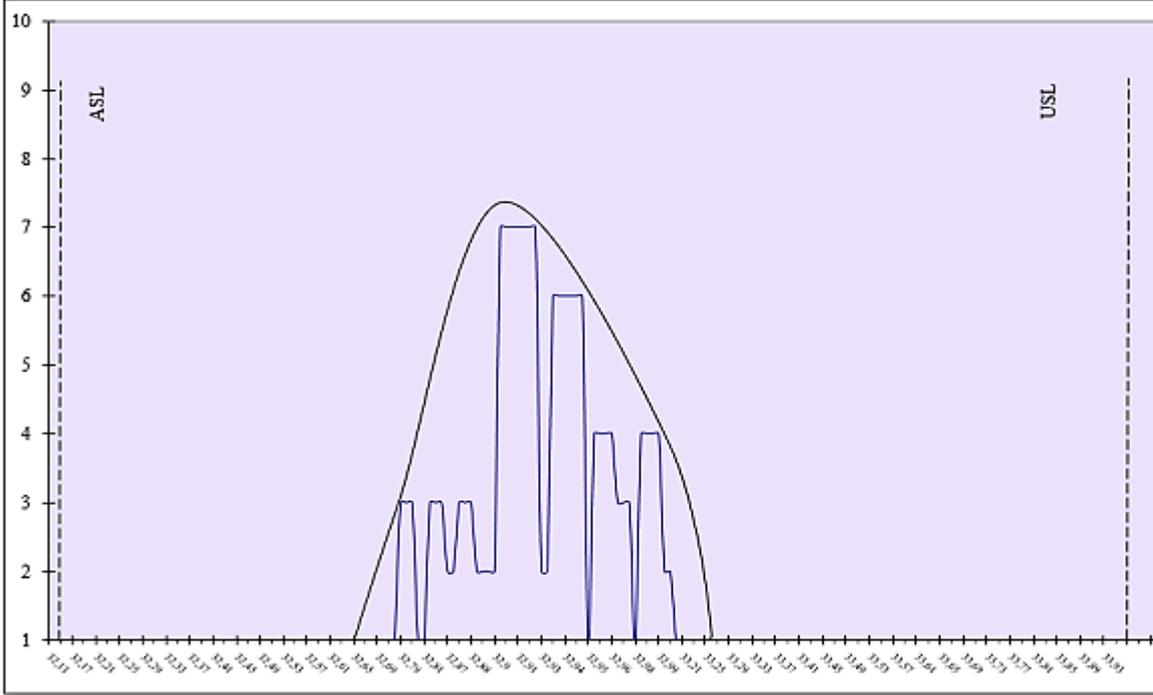


IQR Sertifikasyon Onayı

IQR ULUSLARARASI BELGELENDİRME HİZMETLERİ LTD.ŞTİ.

Beşevler Mah. Kocayunus Sk. No:3 Arslan Han Plaza K:2 Nilüfer / BURSA
Tel.: +90.224.266 00 16 Faks: +90.224.249 41 13 www.iqrcert.com e-posta: info@iqrcert.com

QUALITY AND SAFETY		COMPANY : TEKNOROT		OPERATOR : SİNAN ŞEBİN		NUMBER OF SAMPLES	MEASURING INSTRUMENT
CHARACTERISTIC	SPESİFİKASYON	SAMPLE FREQUENCY	OPERATION	MACHINE NAME	MACHINE NO.	50	1/100 CALIPER
INSIDE DIAMETER	33±1	SEQUENTIAL	SPRING	HTC 16	CNC 2		



UPPER LIMIT = 34
LOWER LIMIT = 32
CALCULATIONS
\bar{X} = 32,9206
S = 0,07893
C_m = 4,2233
C_{mka} = 3,887928242
C_{mku} = 4,558581082

THINKINGS

IF $C_m \geq 1.33$
THE MACHINE IS CAPABLE.
 $C_{mka} \geq 1.33$ OR
 IF $C_{mku} \geq 1.33$
THE SETTING IS APPROPRIATE.

MEASURING
SİNAN ŞEBİN

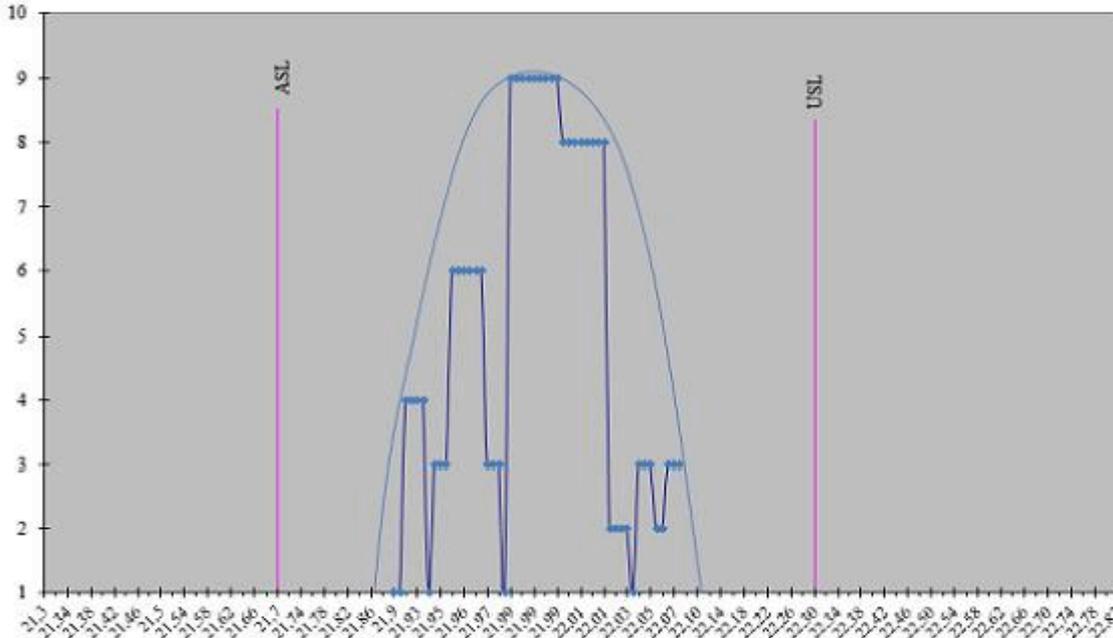
PREPARER

APPROVED BY
ADNAN COŞANÖZ

MEASURED VALUES

32,72	32,94	32,91	32,97	32,95	32,88	32,94	32,91	32,99	32,93	32,93	32,94	32,97
32,91	32,85	32,87	32,96	32,99	32,91	32,99	32,89	32,85	32,94	32,91	32,8	32,79
32,96	33,01	32,97	32,91	32,96	32,9	32,88	32,81	32,79	32,98	32,9	33,21	33,08
33,01	32,94	32,91	32,87	32,79	32,88	32,85	32,89	32,96	32,99	32,94		

QUALITY AND SAFETY		COMPANY : TEKNOROT		OPERATOR : Sinan		NUMBER OF SAMPLES	MEASURING INSTRUMENT
CHARACTERISTIC	SPESİFİKASYON	SAMPLE FREQUENCY	OPERATION	MACHINE NAME	MACHINE NO.	50	1/100 CALIPER
INSIDE DIAMETER	22±0.30	SEQUENTIAL	SPRING	HTC 28	CNC 1		



UPPER LIMIT = 22,3
LOWER LIMIT = 21,7
CALCULATIONS
\bar{X} = 21,9918
S = 0,04283
C_m = 2,3346
C_{mka} = 2,27078
C_{mku} = 2,3984

THINKINGS

IF $C_p \geq 1.33$
THE MACHINE IS CAPABLE.
 $C_{mka} \geq 1.33$ OR
 IF $C_{mku} \geq 1.33$
THE SETTING IS APPROPRIATE

MEASURING
ADNAN COŞANÖZ

PREPARER

APPROVED BY
ADNAN COŞANÖZ

MEASURED VALUES

22,03	21,94	21,96	21,98	22,01	22,01	22,07	22,06	22,04	21,99	21,99	21,96	21,97
22,01	21,96	21,99	22,05	21,99	22,02	21,95	21,95	21,99	22,05	22,07	22,02	21,96
22,05	21,99	21,99	22,06	21,99	21,96	22,01	22,01	22,01	22,03	21,97	21,93	21,93
22,01	21,92	21,97	21,9	22,01	22,07	21,93	21,95	21,93	21,96	21,99		



**At your request
we manufacture**

**flat wire using our
own CNC machines.**



**The wire is crushed in the CNC rolling machine to the
desired sizes and a special cutting technique is applied to
the rings shown in the picture.**



Flat Ring

inside
diameter from
12 mm to 78
mm



Round Ring

inside
diameter from
15 mm to 40
mm



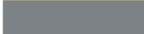
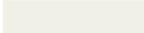
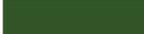


Our total monthly production capacity is 5,500,000 parts

Surface treatment

Process	salt test resistance
Cold phosphate + oil cleaning + epoxy paint	90 hours
Hot phosphate + oil cleaning + epoxy paint	120 hours
Cr+3 galvanizing	360 hours
Cr+3 galvanizing + epoxy paint	360 hours
1.4310 Aisi	
1.4310 Aisi + epoxy paint	
Zincflake	480 hours
Zincflake + epoxy paint	480 hours
GEOMET®500B min 9µ	1000 hours
GEOMET®500B min 9µ + epoxy paint	1001 hours

Standard colors

Burgundy		Ral 3007
Blue		Ral 5012
Blue		Ral 5026
Blue		Ral 5017
Navy Blue		PMS 288
Red		Ral 3020
Yellow		Ral 1018
Gray		Ral 7046
White		Ral 9016
Black		Ral 9005
Brown		Ral 8002
Orange		Ral 2000
Lilac		Ral 4001
Green		Ral 6002
Green		Ral 6003
Green		Ral 6018

For other colors, please contact us.



**Our PLC painting machine and
CNC spring forming machines.**



**CNC oil cleaning, cold phosphate,
hot phosphate line.**



Harmony in
Chemistry

TUZLU SİS TEST RAPORU

SALT SPRAY TEST REPORT

Rapor No: 00172

Report No: 00172

Yapay atmosferlerde korozyon deneyleri (ISO 9227:2017'ye veya ASTM B-117'ye dayanarak tuz püskürtme testi) *Corrosion tests in artificial atmospheres (Salt spray test based on ISO 9227: 2017 or ASTM B-117)*

Numune, ilgili şartnameye uygun olarak Tuz Püskürtme Testi için laboratuvara gönderilmiştir.
The sample was sent to the laboratory for Salt Spray Test according to the relevant specifications.

1. İlgili Bilgiler/ Related Information

Test Edilenin Adı/Parça no.su <i>Name-part number of specimen</i>	Yay <i>Bow</i>
Test Edilen Parça Tanımı/ Tested specimen definition	Yüzeyi çinko fosfat kaplı ve yaş boyalı DKP yay test parçaları <i>Zinc phosphate coated and wet painted slab bow specimens.</i>
Üretici Firma <i>Manufacturer</i>	TEKNO YAY
Parçaları Gönderen <i>Sender of specimens</i>	Samet BALCAN
Adet <i>Piece number</i>	9
Kaplama <i>Coating</i>	Çinko Fosfat <i>Zinc phosphate</i>
Boya Türü <i>Type of Paint</i>	Yaş boya <i>Wet paint</i>
Test <i>Test</i>	Tuzlu Sis Test Kabininde ISO 9227:2017'ye veya ASTM B117'ye dayanan korozyon testi <i>Corrosion test based on ISO 9227: 2017 or ASTM B117 in the Salt Spray Test Cabinet</i>
Test Ekipmanının Adı <i>Name of test equipment</i>	Tuz Sis Test Kabini model SF/450 <i>Salt Spray Test Cabinet model SF / 450</i>
Tarih (Test Süreci/Başlangıç-Bitiş) <i>Date(test duration/start-end)</i>	20.11.19/25.11.19
Çalışma Bilgileri: Bölüm <i>Operating Information: Section</i>	Kalite/ <i>Quality</i>



Harmony in
Chemistry

TUZLU SİS TEST RAPORU

SALT SPRAY TEST REPORT

Rapor No: 00172

Report No: 00172

Kayıt Şekli <i>Recording form</i>	120 Saat sonra fotoğraflı rapor <i>120 Hours later imaged report</i>
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2. Test Ortamı ve Koşulları/ Test Environment and Conditions

Kabin/ <i>Cabin</i>	Tuzlu sis kabini model SF/450 <i>Salt Spray Test Cabinet model SF / 450</i>
Kabin İçi Sıcaklık <i>Cabin temperature</i>	35±2 °C
PH Değeri <i>PH value</i>	6.78
NaCl Yoğunluğu <i>Density of NaCl</i>	1.035 g/cc
Sis Karışımı <i>Fog mixture</i>	Saf suda/ <i>in pure water</i>
Malzeme <i>Material</i>	Camla takviye edilmiş polyester <i>Glass reinforced polyester</i>
Kesici Bıçak <i>Cutter knife</i>	TQC Cross Hatch Adhesion Test kit
Sis Basıncı <i>Fog pressure</i>	2-4 bar
Sis Miktarı <i>Fog amount</i>	0.3-0.4 L/sa(h)
Sisleme Şekli <i>Spray type</i>	Sürekli/ <i>continious</i>
Test Edilenin konumu <i>Location of the test specimens</i>	Dik Olarak (yaklaşık 20°±5 açıyla) <i>Perpendicular (at approximately 20°±5 angle)</i>



3. Test Edilen Ürünün Sonuç Değerlendirmesi İçin Hazırlanması

Preparing the Tested Product for Result Evaluation

Testten sonra korozyon oluşumunu değerlendirebilmek için:

To evaluate the formation of corrosion after testing;

Ürün testten çıkarıldıktan sonra, durulama işleminden önce korozyon ürünlerinin çıkarılma riskini azaltmak için 0.5-1 saat boyunca kurumaya bırakılmıştır.

After the product is removed from the test, it is allowed to dry for 0.5-1 hours to reduce the risk of removing corrosion products before rinsing.

Ardından, püskürtme artıkları dikkatlice temizlenerek 40 ° C'yi aşmayan bir sıcaklıkta, temiz akan musluk suyu içinde yavaşça durularak oda koşullarında kurumaya bırakılmıştır.

After the spray residues were carefully cleaned, the specimens were rinsed in a slowly flowing tap water at a temperature not exceeding 40 ° C. Then, the specimens were allowed to dry under room conditions.

