



Certificate 3.1  
UNI EN 10204:2005

Test Report	24035581	Page	1
Test Date	03/09/24		
Customer			
ROLLER INDUSTRIAL S.A.			
P.I. LEZAMA-LEGUIZAMON C/ZUBEROA 1 , 2ºDCHA			
ETXEBARRI (VIZCAYA)		48450	
ES			

N° RGP Order	24024198 O2 3,00	Shipment Date	08/08/24	Ref.Custome	202.400.996
Delivery Number	24201508	Quantity	6000,00 NR		
Item	SF52100085200 - 031642	Heat Number	619070446	ISO 3290-1:2014	
Item Description	BALLS 52100 MM.8,5200	Grade	G 100	ANSI/ABMA/ISO 3290-1:2014	
Lot Number	S0002538	HRC	60-66	DIN 5401:2002	
Production Date	26/03/24	Sorting	+/-0 µm		
CHEMICAL COMPOSITION					
683-17:2014 100Cr6/1.3505					
GCr15 steel equivalent to US AISI SAE ASTM A295, European EN, Germany DIN, Japanese JIS, British BSI, France NF and ISO standard.					
Chemical Composition	Minimum Value	Maximum Value	Result Value		
% CARBON (C)	0,930	1,050	0,990		
% CHROME (CR)	1,400	1,650	1,478		
% COPPER (CU)	0,000	0,200	0,021		
% MANGANESE (MN)	0,250	0,450	0,340		
% NICKEL (NI)	0,000	0,300	0,015		
% PHOSPHORUS (P)	0,000	0,025	0,010		
% SULFUR (S)	0,000	0,025	0,010		
% SILICON (SI)	0,150	0,350	0,220		
COMPILED BY:                      CHECKED BY:                      QA MANAGER :					
Massimiliano Ferro		Niki Scavullo		Andrea Rossi	



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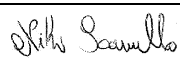
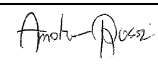
RGPBALLS S.R.L.  
Via E. De Amicis 59/C - 61/A  
20092 Cinisello Balsamo (MI) - Italy  
VAT N° e C.F. 08678490965  
Num. Rea MI-2042305  
Cap. Soc. 1.000.000 € I.V.  
Tel. +39 02.617.88.57 - +39 02.66.01.70.32  
Email: rgpballs@rgpballs.com  
www.rgpballs.com

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MECHANICAL TESTS																								
DIAMETER VARIATION										ROUNDNESS					ROUGHNESS -Ra					HARDNESS				
UNI EN ISO 17450-2:2012										UNI EN ISO 12181-2:2011					UNI EN ISO 1302:2002					UNI EN ISO 6508-1:2015				
UNI EN ISO 6507-1:2005																								
Min Max										Min Max					Min Max					Min Max				
-2,5 µm +2,5 µm										0,0 µm 2,5 µm					0,0 µm 0,10 µm					60,0 66,0 HRC				
Sample N°	Result Value					Result Value					Result Value					Result Value								
1	0,400					0,190					0,020					64,5								
2	0,000					0,230					0,030					65,0								
3	0,800					0,220					0,020					64,5								
4	0,300					0,230					0,020					64,0								
5	0,700					0,190					0,020					65,0								
6	0,500					0,180					0,030					65,5								
7	0,200					0,240					0,020					64,0								
8	0,600					0,220					0,020					64,0								
9	0,600					0,250					0,030					64,5								
10	0,400					0,210					0,020					65,0								

COMPILED BY:	CHECKED BY:	QA MANAGER :
 Massimiliano Ferro	 Niki Scavullo	 Andrea Rossi