



Certificate 3.1  
UNI EN 10204:2005

Test Report	24035580	Page	1
Test Date	03/09/24		
Customer			
ROLLER INDUSTRIAL S.A.			
P.I. LEZAMA-LEGUIZAMON			
C/ZUBEROA 1 , 2°DCHA			
ETXEBARRI (VIZCAYA)		48450	
ES			

N° RGP Order	24024198 O2 1,00	Shipment Date	08/08/24	Ref.Custome	202.400.996
Delivery Number	24201508	Quantity	30000,00 NR		
Item	SF52100085000 - 031640	Heat Number	D12208097XX	ISO 3290-1:2014	
Item Description	BALLS 52100 MM.8,5000	Grade	G 100	ANSI/ABMA/ISO 3290-1:2014	
Lot Number	3043085005	HRC	60-66	DIN 5401:2002	
Production Date	30/04/23	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		
% ALUMINIUM (AL)	0,000	0,050	0,020		
% CARBON (C)	0,930	1,050	0,960		
% CHROME (CR)	1,400	1,650	1,450		
% COPPER (CU)	0,000	0,200	0,019		
% MANGANESE (MN)	0,250	0,450	0,300		
% MOLYBDENUM (MO)	0,000	0,080	0,008		
% NICKEL (NI)	0,000	0,300	0,040		
% PHOSPHORUS (P)	0,000	0,025	0,017		
% SULFUR (S)	0,000	0,025	0,010		
% SILICON (SI)	0,150	0,350	0,290		
% TITANIUM (TI)	0,0000	0,0060	0,0038		
COMPILED BY:                      CHECKED BY:                      QA MANAGER :					
Massimiliano Ferro		Niki Scavullo		Andrea Rossi	



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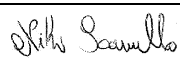
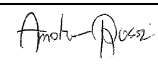
RGPBALLS S.R.L.  
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Delivery Number	24201508	Quantity	30000,00 NR		

Item	SF52100085000 - 031640	Heat Number	D12208097XX	ISO 3290-1:2014
Item Description	BALLS 52100 MM.8,5000	Grade	G 100	ANSI/ABMA/ISO 3290-1:2014
Lot Number	3043085005	HRC	60-66	DIN 5401:2002
Production Date	30/04/23	Sorting	+/-0 µm	

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 -2,5    µm    Max +2,5    µm					Min 0,0    µm    Max 2,5    µm				Min 0,0    µm    Max 0,10    µm				Min 60,0    Max 66,0 HRC	
Sample N°	Result Value				Result Value				Result Value				Result Value	
1	-0,200				0,610				0,020				65,0	
2	0,500				0,500				0,020				64,5	
3	0,100				0,550				0,020				64,5	
4	-0,400				0,620				0,020				65,0	
5	0,200				0,580				0,020				64,5	
6	-0,500				0,520				0,020				65,0	
7	-0,300				0,530				0,020				64,5	
8	0,100				0,600				0,020				64,5	
9	-0,300				0,550				0,020				65,0	
10	0,200				0,520				0,020				65,0	

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