RGPBALLS S.R.L.
Via E. De Amicis 59/C - 61/A
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Certificate 3.1
UNI EN 10204:2005

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Customer

ROLLER INDUSTRIAL S.A.

P.I. LEZAMA-LEGUIZAMON
C/ZUBEROA 1 , 2°DCHA

ETXEBARRI (VIZCAYA) 48450
ES

N° RGP Order	24024198 O2 2,01	**Shipment Date**	30/08/24	**Ref.Custome**	202.400.996
Delivery Number	24201548	**Quantity**	30000,00 NR		

Item	SF52100085100 - 031641	**Heat Number**	619070446	ISO 3290-1:2014
Item Description	BALLS 52100 MM.8,5100	**Grade**	G 100	ANSI/ABMA/ISO 3290-1:2014
Lot Number	S0002816	**HRC**	60-66	DIN 5401:2002
Production Date	07/08/24	**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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MECHANICAL TESTS

	DIAMETER VARIATION UNI EN ISO 17450-2:2012	**ROUNDNESS** UNI EN ISO 12181-2:2011	**ROUGHNESS -Ra** UNI EN ISO 1302:2002	**HARDNESS** 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	0,500	0,310	0,020	65,0
2	0,800	0,320	0,020	65,0
3	0,000	0,350	0,030	65,5
4	0,100	0,310	0,020	64,5
5	0,400	0,350	0,020	65,0
6	0,600	0,360	0,020	65,5
7	0,700	0,300	0,030	64,5
8	0,300	0,320	0,020	65,0
9	0,800	0,320	0,020	65,0
10	0,500	0,330	0,030	65,5

COMPILED BY:	**CHECKED BY:**	**QA MANAGER :**
Massimiliano Ferro	Nikiscavullo	Andrea Rossi