

Certificate Date: January 16th, 2022

CERTIFICATE OF COMPLIANCE FOR TEST BODIES FOR METAL DETECTOR

To: *Multipartes Metálicas de México SA de CV & HunterDetector*

Location: México, City

Authorized Dealer

This certificate is issued in compliance of *ISO / IEC 17025* and *ISO2000* Standards that ratifies that polluting witnesses for testing metal detectors meet the required specifications of dimension, chemical and metallographic analysis and mechanical tests ensuring that the materials used for each of the Ferrous (Fe), Non-Ferrous (NoFe) and Stainless Steel (SUS) contaminants they are suitable for each type.

The laboratory instruments used for such tests are the following:

FOR THE SIZE:

Digital Micrometer INSIZE Model:	3520-30
Rank:	5-30mm/0.2-1.2"
Type:	A
Setting Ring:	5mm
Accuracy:	+/- 5µm
Resolution:	0.001mm/0.00005"
IP/Nema rating:	IP65
Minimum Measuring Range:	0 mm



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MULTIPARTES METÁLICAS DE MÉXICO SA DE CV

*Detectores de Metal / Verificadoras de Peso / Equipos de Rayos X
Servicio Técnico Especializado a Todas las Marcas*

HUNTER Detector
INSPECTION SYSTEM

FOR CHEMICAL ANALYSIS:

Atomic Absorption Spectrometer

Thermo Fisher Model: iCE 3800AAS
Fumace Atomizer Option: GFS35Z3
Gas Management: Automatic Binary Control
Photomultiplier Wide Range: 180 nm to 900 nm

Sulfur Coal Determiner

Leco Corporation Model: CS844 Series
Standard Test Methods: ISO9556/ISO10719
ASTME1941/ASTME1019

Colorimeter Spectrophotometer

Model: PFXi880
Light Source: 5V/10W tungsten halogen lamp
Luminous Sources: CIE Illuminant A, B, C, D65
Optical System: 16 interference filters
Rank mm: 420-710
Spectral Bandwidth mm: 10
Reproducibility: +/-0.0002
Measurement Time: Less than 25 seconds
Path length: 0.1-153
Calibration: Baseline



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FOR MECHANICAL TEST:

Digital Durometer Shored Type

Standards: DIN53505/ISO7619/ASTM D2240/JISK7215

Rank: 0-100 HD

Precision: <1% H

Resolution: 0.1

CHEMICAL COMPOSITION OF MATERIALS:

Ball Type	ID	Typical Mineral Composition % (Maximum unless otherwise stated)									
		C	Cr	Mn	Ni	P	Al	S	Si	Cu	Fe
Stainless Steel 304 (SUS)	STD	0.08%	20%	2.0	10.5%	0.04%	---	0.03%	1.0	---	---
	ASTM304	MAX	MAX	MAX	MAX	---	---	---	MAX	---	---
	RESULTS	0.065	19.336	1.892	9.758	0.033	---	0.027	0.883	---	---
Non Ferrous (NoFe)	STD	---	---	50	1.5	---	10.00	---	---	83	3.0 A
	T844	---	---	---	---	---	A 11.5	---	---	MIN	5.0
	RESULTS	---	---	33	0.341	---	10.35	---	---	92	4.33
Ferrous (Fe)	ENE235	0.08	---	0.25	---	0.014	---	0.016	0.020	---	---
	RESULTS	0.077	---	0.019	---	0.011	---	0.007	0.016	---	---

MECHANICAL TESTS:

Test	Ferrous Steel 1010	Non Ferrous (Bronze)	Stainless Steel 304
Elongation	20%	20%	45%
Hardness HB	56	70 - 200	175 - 205
Tensile Strength MPa	400 - 550	310	485
Density Kg/Lt	7.833	8.415 - 8.470	7.916



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MEASUREMENT RESULT FOR THE FERROUS (Fe) BALLS:

Ball Size mm	Measurement Results							Approval		Certificate No.
	1	2	3	4	5	Sum	Average	Yes	No	
0.30	0.297	0.299	0.299	0.298	0.298	1.491	0.2982	X		153765H 224931A 264345B
0.50	0.499	0.498	0.501	0.500	0.499	2.497	0.4994	X		125427F 265061B
0.60	0.597	0.598	0.599	0.599	0.598	2.991	0.5982	X		231109A
0.70	0.699	0.697	0.697	0.698	0.698	3.489	0.6978	X		200365A
0.80	0.799	0.798	0.799	0.797	0.802	3.995	0.7990	X		228024B
1.00	1.003	1.002	1.004	1.002	1.004	5.015	1.0030	X		237225B 275099B
1.20	1.199	1.201	1.197	1.202	1.195	5.994	1.1988	X		233160A
1.50	1.501	1.503	1.500	1.501	1.501	7.506	1.5012	X		230794A 242867A 261396A
2.00	2.003	1.999	2.001	1.998	2.003	10.004	2.0001	X		226539A 276633C
2.50	2.503	2.506	2.504	2.501	2.503	12.517	2.5034	X		213026B 230556B 251943A
3.00	3.002	2.987	3.012	3.001	3.017	15.019	3.0038	X		218001A 255806A 218001A
3.50	3.504	3.502	3.502	3.501	3.506	17.515	3.5030	X		157627A 241413C
4.00	4.033	4.027	4.032	4.001	4.015	20.108	4.0216	X		171774A
4.50	4.497	4.502	4.501	4.499	4.500	22.499	4.4998	X		125427E
5.00	5.003	5.042	5.005	5.019	5.017	25.086	5.0172	X		226556A
5.50	5.498	5.497	5.497	5.496	5.498	27.486	5.4972	X		132360F
6.00	6.001	5.999	5.998	5.998	5.996	29.992	5.9980	X		215490B
6.50	6.502	6.502	6.501	6.503	6.507	32.515	6.5030	X		226557A
7.00	7.001	7.009	7.008	7.003	7.009	35.030	7.0061	X		172598A
7.50	7.497	7.499	7.496	7.498	7.501	37.491	7.4982	X		226597A
8.00	7.996	8.035	8.002	7.975	8.065	40.073	8.0146	X		134188A

Manufacturing dimensional tolerance in accordance with the Standard ISO3290-1 +/- 0.025mm



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MEASUREMENT RESULT FOR THE NON FERROUS (NoFe) BALLS:

Ball Size mm	Measurement Results							Approval		Certificate No.
	1	2	3	4	5	Sum	Average	Yes	No	
0.30	0.299	0.298	0.298	0.297	0.298	1.490	0.2980	X		155503A
0.50	0.497	0.496	0.498	0.498	0.498	2.487	0.4974	X		156702B 238773D
0.80	0.799	0.798	0.798	0.797	0.797	3.989	0.7978	X		153493A 238773G
1.00	0.995	0.997	0.997	0.998	0.997	4.984	0.9968	X		234943A
1.20	1.198	1.197	1.198	1.197	1.197	5.987	1.1974	X		176030L
1.50	1.497	1.498	1.498	1.498	1.499	7.490	1.4980	X		207175B 228372A 275298B
1.80	1.796	1.798	1.799	1.798	1.797	8.988	1.7976	X		158348B
2.00	1.998	1.997	1.997	1.998	1.998	9.988	1.9976	X		229645A 244021A 268719A
2.50	2.496	2.497	2.497	2.498	2.497	12.485	2.4970	X		231916A 248860A 272558A
3.00	2.996	2.997	2.997	2.996	2.998	14.984	2.9968	X		230556A 251230A
3.50	3.495	3.496	3.497	3.497	3.496	17.481	3.4962	X		211593A 244856A
4.00	3.998	3.997	3.997	3.997	3.996	19.985	3.9970	X		215762A 255075A
4.50	4.498	4.497	4.497	4.496	4.498	22.486	4.4972	X		200268A
5.00	4.996	4.996	4.997	4.995	4.997	24.981	4.9962	X		131009D
5.50	5.497	5.498	5.498	5.496	5.498	27.487	5.4974	X		234266A
6.00	5.999	5.998	5.998	5.997	5.996	29.988	5.9976	X		132375B
6.50	6.495	6.495	6.496	6.497	6.497	32.480	6.4960	X		149098A
7.00	6.997	6.997	6.998	6.998	6.997	34.987	6.9974	X		228074B
7.50	7.496	7.498	7.498	7.496	7.498	37.486	7.4972	X		220075A
8.00	7.997	7.998	7.997	7.998	7.998	39.988	7.9976	X		229131D

Manufacturing dimensional tolerance in accordance with the Standard ISO3290-1 +/- 0.025mm



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MEASUREMENT RESULT FOR THE STAINLESS STEEL 304 (SUS) BALLS:

Ball Size mm	Measurement Results							Approval		Certificate No.
	1	2	3	4	5	Sum	Average	Yes	No	
0.50	0.498	0.499	0.499	0.498	0.497	2.491	0.4982	X		211040B
0.80	0.796	0.797	0.797	0.798	0.797	3.985	0.7970	X		215490A
1.00	0.997	0.998	0.998	0.996	0.997	4.986	0.9972	X		116262E
1.20	1.195	1.196	1.197	1.197	1.198	5.983	1.1966	X		208673D
1.50	1.496	1.496	1.945	1.498	1.497	7.482	1.4964	X		218514A
1.80	1.796	1.798	1.798	1.797	1.796	8.985	1.7970	X		109047A
2.00	1.997	1.998	1.998	1.996	1.997	9.986	1.9972	X		123499A 145859A
2.50	2.498	2.498	2.498	2.497	2.498	12.489	2.4978	X		215063X
3.00	2.997	2.998	2.997	2.996	2.996	14.984	2.9968	X		127759B 265061A
3.50	3.498	3.498	3.497	3.498	3.499	17.490	3.4980	X		127759C
4.00	3.996	3.995	3.996	3.997	3.997	19.981	3.9962	X		132375C
4.50	4.499	4.498	4.497	4.497	4.497	22.488	4.4976	X		177389A
5.00	4.996	4.997	4.997	4.996	4.998	24.984	4.9968	X		169753B
5.50	5.496	5.495	5.495	5.496	5.497	27.479	5.4958	X		210228A
6.00	5.997	5.998	5.998	5.999	5.996	29.988	5.9976	X		227681B
6.50	6.498	6.496	6.496	6.497	6.497	32.484	6.4968	X		229592A
7.00	6.996	6.997	6.996	6.995	6.996	34.980	6.9960	X		234266C
7.50	7.496	7.498	7.498	7.496	7.497	37.485	7.4970	X		212099B
8.00	7.998	7.997	7.998	7.997	7.996	39.986	7.9972	X		124812Ci

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We hereby certify that all parts and material supplied by us in the clients purchase order are in conformance with all contractually applicable specification as referenced in the purchase order and drawing supplied.

The material used is food grade either Polyethylene, Acetal, Nylon or Acrylic.

I certify that the above information is true and correct as contained in the records of the company.

This certificate of conformity apply for all the sizes and kinds of the test bodies, and has not expiration date because under no circumstances can affect or change the values of these test bodies or in their size or chemical composition.

This certificate is prepared by qualified Mediumz staff and is used by our distributor for the goods that he they consider relevant.

Signature	<i>Glenn Griffiths</i>	Signature	<i>Adam Bazeley</i>
Name and Title	GLENN GRIFFITHS	Name and Title	ADAM BAZELEY

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