



EVOLUTION

BBS

VOLUME 3



EVOLUTION

BBS

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target
bbs™

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MIMETIX
BIODEGRADABLE BBS

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SPHERE



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XTREME[®] precision ONE STEP AHEAD

The air soft guns technology is continuously evolving increasing air soft guns' shooting performance, but the shooting performance increase is just theoretical if the BB's used don't feature Xtreme Precision[®] dimension, sphericity, hardness and weight values. Today's air soft guns feature impressive rates of fire often over 1800 BB's per minute, tight bore barrels are now an affordable option part chosen by the most to increase the shooting accuracy and endless upgrade and custom configurations are readily available, but any upgrade is a non-sense if the BB's shot are not able to transfer

all that potential performance to the target. The Xtreme Precision[®] BB's are designed and manufactured using cutting edge technology and first-class raw materials and go through a meticulous quality control process to ensure that each and every BB inside one bag features exactly the same size, tolerance and weight as all the other BB's inside the same bag and, at the same time, ensuring that each BB features a performance-increasing perfect and smooth mirror-like polished surface. As performance is nothing without safety the whole range of Xtreme Precision[®] BB's are certified to comply with all applicable EU standards. With a complete range of different colors, weights and package styles available both in Biodegradable and Recyclable versions, the Xtreme Precision[®] BB's are the one stop solution for non-compromising air soft guns wholesalers, retailers and air soft guns shooters. The Xtreme Precision[®] BB's are worldwide renowned for their amazing sphericity, tight tolerance and perfect polished surface. Discover why the Xtreme Precision[®] BB's are the BB's of choice of the most professional war-game players around the globe!

**THE MOST ACCURATE BB'S ON
THE MARKET. THE PROOF.**





OUTDOOR PRECISION BB

BIODEGRADABLE in word and deed

A FEW WORDS ABOUT BIODEGRADATION


There is a lot of confusion among airsoft BB's users about the meaning of the word "biodegradable".

Biodegradation is the process by which organic substances are broken down by other living organisms. During this process the Biodegradable material is eaten and digested by bacteria, fungi and algae existing in the natural environment. The Biodegradable plastics are plastics that will decompose in the natural environment by biodegradation. The biodegradation can be measured in a number of ways. The activity of aerobic microbes can be measured by the amount of oxygen they consume or by the amount of carbon dioxide they produce. Biodegradation by anaerobic microbes can be measured by the amount of methane they produce while digesting the biodegradable material.

Many air soft BB's users confuse the terms "biodegradable" and "degradable". They are not the same. The Degradable plastic is a plastic designed to

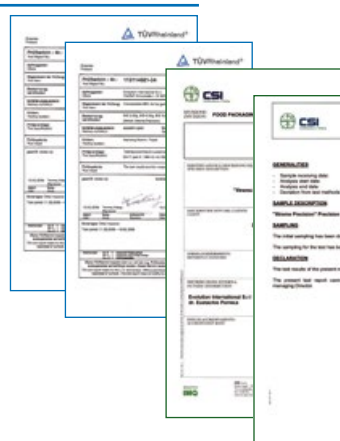
simply undergo a significant change in its chemical structure under specific environmental conditions resulting in a loss of some properties that may vary as measured by standard test methods appropriate to the plastic and the application in a period of time that determines its classification. Most of the products using the label Degradable plastic, degrade as result of physical and chemical impact (fracture into smaller pieces of plastic). Biological activity is not a significant part of the degradation of these products. In simpler words the BB's made of Degradable material just break in very small particles which spread on the soil, but the bacteria are unable to eat this material even if broken in very small pieces and it will remain in the soil. All Biodegradable plastics are Degradable but not all Degradable Plastics are Biodegradable. The BB's made of Biodegradable material are eaten and digested by the bacteria, fungi and algae in the natural environment.

The word biodegradable in the Airsoft BB's market has always been associated to poor quality, low performance, instability and very high price. We worked around these problems to design the Xtreme Precision® "Precision Biodegradable BB's". No more BB's melting in your hands, jamming in your barrel or breaking in the magazines. The Xtreme Precision® "Precision Biodegradable BB's" feature the same precise size, perfect roundness, balance, smooth and shiny surface that have made the Xtreme Precision® BB's famous worldwide.



*Actual picture of Xtreme Precision® Biodegradable BB's under biodegradation process

Xtreme Precision CERTIFIED BIODEGRADATION



RAFFRONTO DI PROVA
(Test Report)

Fig. 3
Pag. 3

CS

N° 0190\FPM\MATs\12_2

Data: 27/03/2012

PERFORMED DETERMINATIONS

1) DIFFERENTIAL SCANNING CALORIMETRY ANALYSIS (DSC)

The qualitative test of materials was carried out using DSC method to set up the scanning under nitrogen flow (50 ml/min):

- 1° heating: from 40°C to 300°C with gradient to 20 °C/min;
- cooling: from 300°C to 40 °C with gradient to -10 °C/min;
- 2° heating: from 40°C to 300 °C with gradient to 10 °C/min.

2) INFRARED SPECTROSCOPY ANALYSIS (FT-IR)

The composition of living: were carried out using FT-IR Perkin Elmer serie SPECTRUM ONE method equipped with ATR (superficial reflection).

RESULTS

SAMPLE	FTIR	DSC
"Xtreme Precision" Precision Biodegradable BB	PLA	153°C first heating

CONCLUSION

The sample is PLA (polylactide or acid polylactide or polylactide). The PLA is biodegradable and degrades rapidly in composting.

DATA

Date: 27/03/2012

RESP. FOOD PACKAGING MATERIALS
Division Head
Alberto Toffredi

RESP. DEL CENTRO
Managing Director
Pasquino Cusi

The Xtreme Precision® "Precision Biodegradable BB's" are certified to be made of Polylactate, a natural biodegradable polymer rapidly degradable in compost (test Report n. 0190\FPM\MATs\12_2).

A big variety of BB's on the market is claimed to be biodegradable but a very few brands claims are supported by valid lab tests.

The Xtreme Precision® "Precision Biodegradable BB's" are supported by multiple test analysis performed by prestigious and world-wide renowned test labels in order to certify their compliance with all applicable standards including EN71 part 3: 1994-12+A1/09.00+AC/07.02, EC 1907/2006 (REACH) and ASTM D-6400-99 (Standard Specifications for Compostable Plastics).

The Xtreme Precision® "Precision Biodegradable BB's" are certified by the Italian independent Test Lab CSI (IMQ Group) to be BIODEGRADABLE.

Xtreme Precision BIODEGRADABLE IN WORD AND DEED

The Xtreme Precision® Biodegradable BB's are basically made of modified corn-starch combined with other biodegradable materials. The corn-starch is modified in order to obtain heat-resistant properties, making this kind of material one of the only bioplastics capable of withstanding high temperatures.

This Biodegradable material is stable in the atmosphere but biodegrade in the natural environment and in general anywhere microorganisms exist. This biodegradable material can run on many existing injection molding lines and is currently used not only for the BB's but for a wide variety of applications in the plastic market and horticulture planters. This type of biodegradable material, being based on corn-starch and others vegetable starch, is derived from a renewable resource. Unlike plastic, this material can also be disposed of through incineration, resulting in non-toxic smoke and in a white residue which can be used as fertilizer.

All Xtreme Precision® BB's are certified by the German test lab TÜV Rheinland to ensure compliance with all EU standards.

Xtreme Precision OUTDOOR BIODEGRADABLE BB

TECHNICAL SPECS

- Guaranteed roundness
- Not affected by humidity
- Maximum accuracy
- Xtreme Precision® quality
- Mirror-like polished
- Size 5,96mm \pm 0,005
- Certified Truly Biodegradable
- Compliant with ASTM D-6400-99
"Standard specifications for compostable plastics"
- Certified EN71 part 3:1994-12+A1/09.00+AC/07.02
- Certified (EC) no. 1907/2006, Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
- Stable size

0.20G
BIO-20W-BTL

0.23G
BIO-23W-BTL

0.25G
BIO-25W-BTL

0.28G
BIO-28W-BTL

0.30G
BIO-30W-BTL



DARK EARTH

BOTTLE

**2800
SHOTS**

TACTICAL ADVANTAGE

The color is light enough to allow the shooter to see the trace effect of the BB's while shooting but is dark enough to make difficult for the opponent to see from where the BB's come from.

INVISIBLE

The color is specially designed to make the BB's immediately disappear in the ground.
Zero visual impact.



0.20G
BIO-20-BTL

0.23G
BIO-23-BTL

0.25G
BIO-25-BTL



THE MOST ACCURATE BB'S ON
THE MARKET. THE PROOF.



XTREME[®] precision INDOOR PRECISION BB

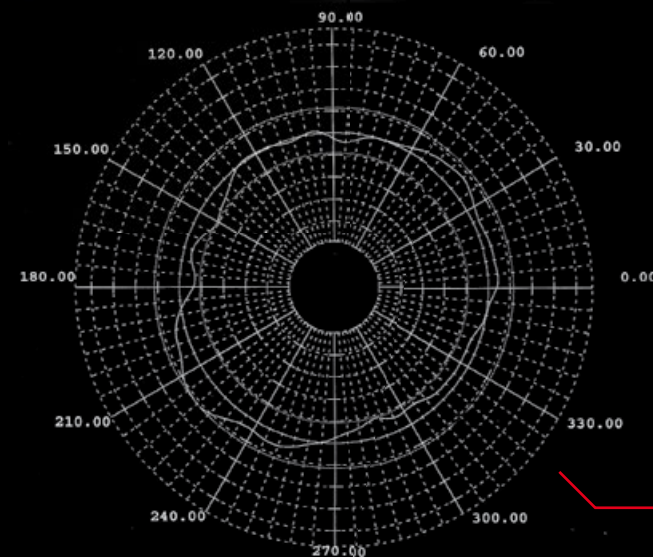
For those uses where BB's dispersion in the natural environment is not a concern, Xtreme Precision[®] developed an extensive range of Recyclable

BB's. After the use, the Xtreme Precision[®] BB's can be collected and Recycled to make new plastic products, giving the plastic BB's are made of, a second life cycle and helping reducing the impact of plastic products on our planet. The Xtreme Precision[®] BB's are made of New, First Class raw materials and feature unmatched roundness, low tolerance and perfectly polished smooth surface that will optimize

the action of the hop-up system and in-barrel acceleration. The dimensions of common commercially available BB's are very variable, they range from 5.88mm (too small) to 5.98mm (too big), also the tolerance is usually very variable and may be as high as $\pm 0.04\text{mm}$. Dimension and tolerance directly affect the shooting performance and the BB's reliability. Poor quality BB's usually have high tolerance in combination with small diameter as most manufacturers, being not able to reduce the tolerance, reduce the diameter to allow the BB's to still go through the barrel. Instead of reducing the diameter, using the most advanced machinery and manufacturing processes, we reduced the tolerance to the smallest value possible allowing the Xtreme Precision[®] BB's to be correctly sized for the best any-condition shooting experience. Increase of shooting distance, shooting accuracy and no-jam experience can all be achieved by using the Xtreme Precision[®] BB's, which are correctly dimensioned at 5.96mm, featuring an unmatched tolerance of just $\pm 0.005\text{mm}$ and an amazing average roundness value of $1.088\mu\text{m}$ measured by laser professional instruments on the 3D BB's surface. The Xtreme Precision[®] BB's, being literally perfect spheres, will always deliver the best performance, no matter if they are asked to run through standard or super high-tech tight bore barrels.



The Xtreme Precision[®] BB's diameter is precisely dimensioned to deliver the highest shooting performance.



5.00 (X 2000)							
Metodo di calcolo(Condizioni di misura): LSC							
	Rotondità	Picco	Valle	Rotondità media	N° picchi	DX	DY
A002	5.162um	2.962um	-2.300um	1.088um	4peak	-6.827um	-2.54
Condizioni di misura							
A002	Velocità tavola	Ingrandimento	Posizione Z	Cutoff	P. Basso	15upr	Tipo Filtro
	6.0rpm	X1000	0.00mm				Gaussiano

Three-dimensional scan of Xtreme Precision[®] BB surface (Magnified 1000 times). The test report shows the astonishing average roundness value of $1.088\mu\text{m}$

INDOOR RECYCLABLE BB



TECHNICAL
Maximum accuracy •
Xtreme Precision® quality •
Mirror-like polished •
Certified EN71 part 3:1994-12+ •
A1/09.00+AC/07.02

SPECIFICATIONS

- Stable size
- Guaranteed roundness
- Size 5,96mm \pm 0,005
- Certified (EC) no. 1907/2006, Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

INDOOR RECYCLABLE BB



0.20gBB

BBP-20-BTL

0.23gBB

BBP-23-BTL

0.20gBB

BLH-20-BTL

0.25gBB

BBP-25-BTL

0.30gBB

BBP-30-BTL



BOTTLE
**2800
SHOTS**



BBP-20-C

BLH-20-C

BBP-23-C



BBP-25-C

BBP-28-C

BBP-30-C

INSIDE LOOK TO PRODUCTION AND PACKAGING

High standards are followed not only for the production but also for the packaging. Our customers enjoy the most accurate and safe packaging of the industry.



BB's ready for final inspection before sealing the bags. Although most processes are automatic the last inspection is carried out by humans.

Our BB's are produced using the most advanced technology. The production is completely automatic with no human workers involved. Most processes are carried out by robot-arms.



Automatic machinery made in Italy ensures the accuracy and precision of the production process.



RESEALABLE MIMETIX[®] BIODEGRADABLE BBS

FIRE AND FORGET

The Mimetix Biodegradable BBs are Certified 100% Biodegradable and their unique special Camouflage Pattern makes them totally invisible when on the ground, giving the benefit to the user of a true zero visual impact.

They are the major innovation in the BB's industry over the last 10 years.

The declaration of conformity and the certification number are printed on each bag in 4 languages.

- ✓ camouflage pattern
- ✓ zero visual impact
- ✓ verified biodegradable



0.20 g
BBMX20BIO

0.20 g
BBMX20BIO-U

0.23 g
BBMX23BIO

0.25 g
BBMX25BIO

CAMOUFLAGE

URBAN CAMO

target bbs[™]



The Target BBs are designed for those users particularly sensitive to the price tag but requiring good shooting consistency. The Target BBs have a perfectly polished and seamless surface, and no air pockets inside.

To meet the different requirements from the war-game players the Target BBs are available in white color and tan color and in regular and biodegradable version.

The test lab CSI Certificazione e Testing, Italy, ensures that the Biodegradable Target BBs are made of Polylactate (a natural material that degrades rapidly in composting). The declaration of conformity and the lab test certification number are printed on the back side of each bag in four languages.

WHITE BIO

0.20 0.23 0.25 0.28 0.30

TAN BIO

0.20 0.23 0.25

WHITE REGULAR

0.20 0.23 0.25 0.28 0.30



0.20

REGULAR
WHITE BIO
TAN BIO

BBTG20
BBTG20BIO
BBTG20BIOT

0.23

BBTG23
BBTG23BIO
BBTG23BIOT

0.25

BBTG25
BBTG25BIO
BBTG25BIOT

0.28

BBTG28
BBTG28BIO

0.30

BBTG30
BBTG30BIO

S.P.H.E.R.E.



0.20G
0.23G
0.25G **BB** 1KG **24 BAGS**

- Premium Grade
- Actual Tolerance $5.95 \pm 0.01\text{mm}$
- High Polishing
- Seamless
- 1KG Bags
- Master Carton 2x12 Bags

MADE IN
TAIWAN





EVOLUTION

www.evolutioninternational.it



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BASED IN ITALY

