SB INTERNATIONAL

- Environmental protection
- Skin health protection
- Fiber protection
- Cleaning material frugality
- Save water
- Save electricity
- Washing effect
- Bleaching effect
- Bactericidal effect
- Cohesion prevention effect
- Fiber softness effect
- Antistatic effect

1. Usage and period of use
   1) For laundry machine (regular and drum washing machine)
   2) Good for three (3) years. (based upon once a day usage)

2. Features
   1) Laundry Ball, which consists of four main natural ceramics, contained in a round ball, was designed scientifically so that it could clean clothes and laundry without any detergents.
   2) With only Laundry Ball, it substitutes for the major functions of existing ordinary chemical laundry powder.
   3) From the test result by a nationally authorized organization, we were awarded an excellent record on cleaning strength, and power, i.e. Decolorant Strength and Sterilizing Power.
   4) When compared with the normal washing process, we obtained results that were both desirable and economical effect, like detergent-saving, water-saving, electric-saving and time-saving.
   5) It is global invention which was recorded in invention patent, a utility model, design trade mark.
   6) This detergent-free washing ball is a versatile product that functions as a natural health and wellness product, and environmental protection product, and scientific product.

3. Washing principle (four main natural ceramics)

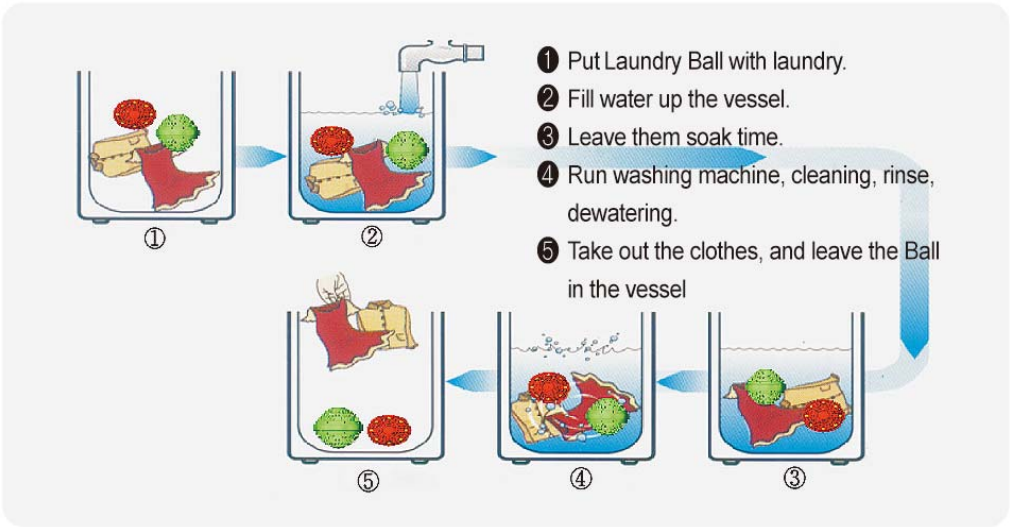
1) The powerful far-infrared rays in Laundry Ball break water molecule's hydrogen-combination into small cluster and force the small water cluster being activated, to increase it's molecular motions, penetration force, and washing power. And it radiates negative ions to weaken the surface and inter fabric adhesion so that the dirt can come off easily without any detergent.
2) The ALKALI BALL keep the pH spectrum at the level that ordinary chemical detergent has, and it helps to remove oil-dirt from clothing.
3) CHLORINE EXCLUSION BALL eliminates the chloride compound in water, and slackens the water surface tension and increases cleaning strength.
4) The ANTIBIOTIC BALL eliminates the mold, pathogenic organisms in the washing machine, and activates the water to increase the cleaning strength.
5) It will be increase the cleaning strength by friction strength of external projection, and water pressure through the external projection.

4. Effects of Laundry Ball

1) Because the Laundry Ball does not contain any detergent, there is no remaining chemical detergent residue in the cloth and fibers, therefore it does not cause about any skin trouble.
2) It protects the oxidation and discoloration of fabric cause by chloride in city water and helps to retain the elasticity of fabric.
3) The Laundry Ball has an antibiotic agent, it eliminates the mold, pathogenic organisms, and unpleasant odors. Wile it activates water and increase the cleaning power.
4) With these combined function, it is not necessary to add blenching agent, fabric softener and other washing additives.
5) For persons, as like children, women who has very weak sensitive skin, it might need the Detergent-free Laundry Ball.
6) There is no tangled result between the laundry.
7) It has economic saving, protect skin health, and preserve the environment pollution caused by chemical detergent. It is really amazing " three-bird-one stone solution " invention.

5. How to use

1) For over the washer capacity 5kgs, use two (2) Laundry Balls. Put Laundry Ball at top of laundry (clothes, etc.) into the laundry vessel and fill the water.
2) And leave them soak for one hour in the water so that it could transform the tap water into activated water, this time allows Laundry Ball to affect the water.
When you wash clothes often, fill the water and put over Laundry Balls primary in order to shorten the soak time.
3) For normal laundry course, it is recommended to run the washer after soak time or smudged laundry course.
4) For very get smudged laundry, or inevitable case, you can use the amount of 1/5 (one fifth) ordinary detergent with Laundry Ball, or do primary of partial washing on clothes with oil stand, old dirt of smudges with conventional detergents (such as Y shirts) as in common washing prior to washing them with the ball.
5) When run the washer, we recommend do separate the laundry which is white colored and colored the laundry.
6) After finish the laundry course, you can leave Laundry Ball even after completion the washing for next washing.
7) Take Laundry Ball and expose it under the sunlight once a month for better efficiency.



6. The result of examination

1) Washing strength test

- An examinant : Korea Apparel Testing & Research Institute
- Subject of test :

Examination Subject	Test on sample	Powder Detergent	Laundry Ball	Judgment
Washing strength	JIS contaminate cloths	36.21 %	35.24 %	similar
Blenching strength	BC-2 Contaminate cloths	16.48 %	20.40 %	Laundry Ball is superior
Fabric flexibleness	towel	0.051 (improved)	0.035 (improved)	Detergent is superior
Sterilizing power	Staphylococcus Aureus Pneumonia		99.3 % 94.1 %	Laundry Ball is superior
Residue of Surface active agent		0.0095g/10 g	none	Laundry Ball is superior

7. Product line up

PICTURE	Model	Gift box size	Carton size	Carton q'ty & weight
	**WBP-600**	97x104x108 (mm)	335X535X320	60pcs / 15kg
	**WB-500**	97x104x108 (mm)	335X535X320	60 / 15kg
	**WL-900**	105x105x95 (mm)	555x450x215 (mm)	40 / 12kg
	**WL-O2**	105x105x95 (mm)	555x450x215 (mm)	40 / 13kg
	**WL-800**	105x105x95 (mm)	555x450x215 (mm)	40 / 12kg

7. Test report

1) Antibacterial test

BIOTECA Co., Ltd.

TEST REPORT

CLIENT : HB Housing co., Ltd
ADDRESS : 294-25 Chaomi-dong, Gangdong-gu, Seoul, Korea
SAMPLE : Well Sense Washing Ball
REPORT NO. : TR-0804-010031
RECEIPT DATE : APR.22.2008
COMPLETION DATE : APR.22.2008
PAGE : 1 OF TOTAL

(1) TEST RESULTS : SHAKE FLASK METHOD (APPLY TO KS M 0146)

CONTENT \ TEST BACTERIA	Staphylococcus aureus ATCC 6538
INOCULUM CONCENTRATION (CFU/ml)	1.7×10^5
AN INCREASING RATE (F)	46 TIMES
M_A	1.3×10^5
M_B	8.2×10^7
M_C	< 10
PERCENT REDUCTION OF BACTERIA (%)	99.9

CONTENT \ TEST BACTERIA	Escherichia coli ATCC 25922
INOCULUM CONCENTRATION (CFU/ml)	1.6×10^5
AN INCREASING RATE (F)	43 TIMES
M_A	1.5×10^5
M_B	6.9×10^7
M_C	< 10
PERCENT REDUCTION OF BACTERIA (%)	99.9

REMARKS : < = LESS THAN CFU = Colony Forming Unit

BIOTECA Co., Ltd.

REPORT NO. : TR-0804-010031
PAGE : 2 OF TOTAL

(2) TEST METHOD

TEST BACTERIA : STRAIN 1 : Staphylococcus aureus ATCC 6538
STRAIN 2 : Escherichia coli ATCC 25922
NEUTRALIZED SOLUTION : PHOSPHATE BUFFER (pH 7.0 ± 0.2)
SAMPLE WEIGHT : 5.0 g
SHAKE SPEED : 120 rpm
PERCENT REDUCTION OF BACTERIA (%) : $(M_A - M_C) / M_A \times 100$
AN INCREASING RATE (F) : M_A / M_B (31.6 TIMES UP)
M_A : START
M_B : AVERAGE OF THE NUMBER OF BACTERIA ON THE UNTREATED TEST PIECE AFTER 24HRS.
M_C : AVERAGE OF THE NUMBER OF BACTERIA ON THE ANTIMICROBIAL TEST PIECE AFTER 24HRS.

Well Sense Washing Ball

BIOTECA Co., Ltd

BIOTECA CO., LTD.
Ki Seok Nam / Technical Manager

KFIRA

KOREA FAR INFRARED ASSOCIATION
KOREA INSTITUTE OF FAR INFRARED APPLIED ESTIMATION

CERTIFICATE OF TESTING RESULT

Serial No. of Issue : KFIA-191
Name of Applicant : Park Eun Seuk, Kim Beong Il (Welko Co., Ltd)
Address of Applicant : 282-3, Jeongnae-Dong, Gangdong-Gu, Seoul, Korea
Date of Receipt : 1. 26. 2007
Name of Test Sample : Welko Ball (Sterling Pine)

TEST RESULTS

TEST ITEM	SAMPLE	EARLY CONC. (CFU/ml)	AFTER 24HOURS (CFU/ml)	REDUCTION RATE OF BACTERIA(%)
ANTIBACTERIAL TEST FOR Staphylococcus aureus	Blank	4.0×10^5	1.3×10^7	-
	Welko Ball (Sterling Pine)		$< 1.3 \times 10^3$	99.9
ANTIBACTERIAL TEST FOR Klebsiella pneumoniae	Blank	2.0×10^5	6.9×10^7	-
	Welko Ball (Sterling Pine)		$< 1.3 \times 10^3$	99.9

Note) ① The blank test was measured on non-test samples.
② The bacteria number on the petri dish was detected by multiplication of dilution rate. End.

① Test method : KFIA-977-3002
② Name of used bacteria :
Staphylococcus aureus ATCC 6538
Klebsiella pneumoniae ATCC 4352
③ Refer to the Enclosed (1-1, 2-1)
④ Usage : Quality control

※ This certificate of testing result shall be used within the purpose of its defined usage.

5 3 2007
(month) (day) (year)

Signed: Choi T. S.

The director of Korea Institute of
Far Infrared Applied Estimation

2) Bleach ability test

KATRI Washing & Cleaning Technology Research Center

KATRI NO. : 3109-000004
PAGE (S) : 2 / 2

TEST ITEM : #1

Bleachability (%) : submitted by applicant
93.0

remark) 1. Washing process : Wash with WELL SENSE WASHING BALL(2EA)
2. Washing condition : Household washing machine(2SM-PK102NL),
Middle water level(5EL), Standard Course
3. Water temperature : (25±2) ℃
4. Ballast fabric weight : 3.0 kg (KS C 9606:2003 Appendix 1-Sheet)
5. Soiled Fabric : WC-2 (Darlad cotton/Cotton)
6. Test method : ① Measure reflectance before washing and after washing
② Calculate bleachability
7. Calculation
① Whiteness = $100 - \sqrt{(100 - L)^2 + a^2 + b^2}$
② Bleachability (%) = (Reflectance after washing - Reflectance before washing) ÷ (Reflectance of non-stained fabric - Reflectance before washing) × 100

The results on this sheet are offered in good faith and are derived from the samples submitted. They represent the testing carried out by our competent staff in our up to date laboratory.

KATRI Washing & Cleaning Technology Research Center

TEST REPORT

APPLICANT : WELLSS CO., LTD
ADDRESS :

KATRI NO : 3207-R0100147
DATE : Apr. 04. 2007
PAGE (S) : 1 OF 1

SAMPLE DESCRIPTION : DB-(1) SAMPLE OF Welkos Washball(2EA)

RECEIVED DATE : Mar. 29. 2007 ***

TEST ITEM : TEST RESULTS
#1

■ Bleachability (%) : submitted by applicant
93.8

Remark)
1. Sample dosage : Welkos Washball(2EA)
2. Water temperature : (25±2) ℃
3. Washing condition : Household washing machine(WF-V105),
Low water level(5EL), Standard Course
4. Ballast fabric weight : 3.0kg (KS C 9606:2003 Appendix 1-Sheet)
5. Soiled Fabric : DC-2
6. Test method : ① Measure reflection rate before washing and after washing
② Calculate bleachability
7. Whiteness = $100 - \sqrt{(100 - L)^2 + a^2 + b^2}$
8. Bleachability (%) = (Whiteness after washing - Whiteness before washing) ÷ (Whiteness of non-stained fabric - Whiteness before washing) × 100

#1

CHUNG SEOK YOO
Director General

The results on this sheet are offered in good faith and are derived from the samples submitted. They represent the testing carried out by our competent staff in our up to date laboratory.

3) Washing strength test

KATRI 세탁·세정기술연구센터

시 험 성 적 서

신 청 자 : 주식회사 에이치비우주
주 소 : 서울 강동구 천호동 294-25 외국 1층
품 목 : 세탁볼 1종
시 료 명 : 세탁볼 1종(2EA)

KATRI NO : 3109-000004
발급일자 : 2009. 04. 24.
쪽 수 : 총 2쪽 중 1쪽
PAGE(S) : 1 / 2

2009. 04. 20. 귀 신청하신 시료에 대한 시험결과는 아래와 같습니다.

시 험 결 과

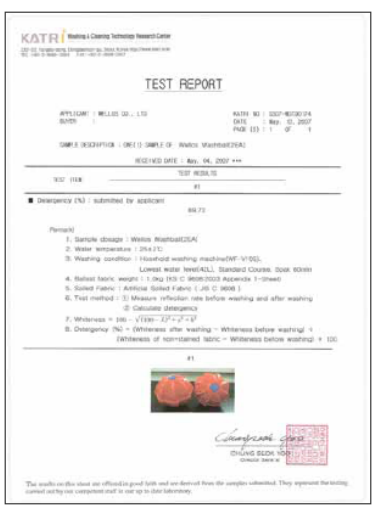
시험1

세탁력 (%) : 신청자 제시 시험 방법
98.3

주) 1. 세탁 조건 : 헹굼수 세탁볼 (2EA) 투입 후 세탁
2. 세탁 표준 : 표준시 세탁기(2SM-PK102NL), 표준코스
3. 세탁온도 : (25±2) ℃
4. 로딩량 : 3.0kg (KS C 9606:2003 부속서1-시트)
5. 오염포 : 솜직물오염포 1/2 (C 9606 - Soiled cotton/Stearic acid, Carbon black etc.)
6. 시험방법 : ① 세탁 전후의 오염포의 반사율을 측정
② 세탁력을 계산
7. 계산
① 백도 = $100 - \sqrt{(100 - L)^2 + a^2 + b^2}$
② 세탁력 (%) = (세탁후 백도-세탁전 백도) / (원포반사율-세탁전 백도) × 100

- 첨 부 - < 시험1 >

KATRI 세탁·세정기술연구센터



KATRI Washing & Cleaning Technology Research Center

TEST REPORT

APPLICANT : WELLSS CO., LTD
BUYER :

KATRI NO : 3207-R0100124
DATE : Apr. 03. 2007
PAGE (S) : 1 OF 1

SAMPLE DESCRIPTION : DB-(1) SAMPLE OF Welkos Washball(2EA)

RECEIVED DATE : Apr. 04. 2007 ***

TEST ITEM : TEST RESULTS
#1

■ Detergency (%) : submitted by applicant
89.73

Remark)
1. Sample dosage : Welkos Washball(2EA)
2. Water temperature : (25±2) ℃
3. Washing condition : Household washing machine(WF-V105),
Lowest water level(4LL), Standard Course, Soak 60min
4. Ballast fabric weight : 1.0kg (KS C 9606:2003 Appendix 1-Sheet)
5. Soiled Fabric : Artificial Soiled Fabric (JIS C 9606)
6. Test method : ① Measure reflection rate before washing and after washing
② Calculate detergency
7. Whiteness = $100 - \sqrt{(100 - L)^2 + a^2 + b^2}$
8. Detergency (%) = (Whiteness after washing - Whiteness before washing) ÷ (Whiteness of non-stained fabric - Whiteness before washing) × 100

#1

CHUNG SEOK YOO
Director General

The results on this sheet are offered in good faith and are derived from the samples submitted. They represent the testing carried out by our competent staff in our up to date laboratory.

4) Drape level test

KATR

TEST REPORT

5) Far-infrared energy emission test

KOREA FAR INFRARED ASSOCIATION
KOREA INSTITUTE OF FAR INFRARED APPLIED ESTIMATION

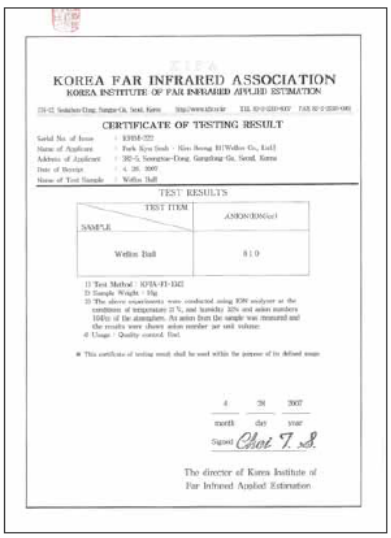
CERTIFICATE OF TESTING RESULT

TEST RESULTS

Emissivity (5 ~ 20 μm)	Emission Power (W/m² μm, 37℃)
0.926	3.57×10^2

The director of Korea Institute of Far Infrared Applied Estimation

6) Anion release test



KOREA FAR INFRARED ASSOCIATION
KOREA INSTITUTE OF FAR INFRARED APPLIED ESTIMATION

CERTIFICATE OF TESTING RESULT

TEST RESULTS

TEST ITEM / SAMPLE	ANION(EA/cc)
Wellin Ball	810

The director of Korea Institute of Far Infrared Applied Estimation