

# SAFE LIFE

Z33 CATALOGUE

SINCE  
1994

**CW FIRE INDUSTRY**

**SAFE  
LIFE**

**Z33**



# **GOLDEN HOUR, AT THE MOMENT OF EMERGENCY**

## **POWERFUL HIGH-PRESSURE JET NOZZLE FIRE EXTINGUISHER**

- Korea's first differentialized Jet spraying fire extinguisher in 30 years
- Certified fire capacity on A4,B6,C class of 3.3kg extinguisher for the first time in Korea
- High performance fire extinguisher that easy to use for everyone in case of emergency

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Specification Number : 18.18.1

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Capacity IN : 3.3 kg

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Complete weight : 4.95 kg

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Fire extinguishing capacity rating : A4,B6,C Level

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Duration of discharge : 12 seconds

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Range of discharge : 4-5 meters

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Temperature range : -20 °C to 40 °C

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**CW Fire Industry Co.,Ltd**  
**won from fire commissioner section at**  
**11th Korea Fire Institute Award**

**Z33**

**High-Performance Fire Extinguisher**



# “Forget about the ordinary fire extinguisher” Korea’s first high-performance fire extinguisher appeared!

Differentialized Jet spraying fire extinguisher for 30 years

Z33 is a high-performance fire extinguisher  
that keeps your safety

## “기존 소화기는 잊어라” 국내 최초 고성능 소화기 등장

씨더블유소방산업, 3.3kg 소화기로 A급 4단위, B급 6단위 성능 확보

30년 만에 기존 소화기보다 약 1.2배의 성능을 갖춘 소화기가 등장해 화제다.

씨더블유소방산업(주)(대표 김진영)는 최근 한국소방산업기술원으로 부터 A급 4단위, B급 6단위의 화재 진압능력을 보유한 분말 소화기인 ‘Z33 고성능 소화기’의 형식승인을 획득하고 본격 출시한다고 밝혔다.

이 소화기는 3.3kg 분말 소화약제 용량으로 기존 4.5kg짜리 분말 소화기와 동일한 화재진압능력을 보유하고 있다.

한국소방산업기술원에 따르면 국내에서 소화기의 형식승인을 보유한 업체는 60여 곳이 넘는다. 3.3kg의 약제 용량으로 승인을 획득한 기업도 무수히 많지만 모두 A급 3단위, B급 5단위로만 승인이 이뤄져 있다. ‘Z33’은 기존 능력단위를 뛰어넘는 획기적인 소화기인 셈이다.

‘Z33’은 총중량 4.95kg의 무게로 방사시간은 12초, 방사거리 4~5m, -20℃~40℃ 내의 환경에서 사용이 가능하다.

기존 소화기의 노즐은 대부분 직분사 방식이 적용돼 있다. 하지만 씨더블유소방산업의 ‘Z33’은 특수 고안된 제트분사 노즐을 적용했다. 소화기 사용 시 방사되는 분말 소화약제를 부채꼴 모양으로 퍼트리 화원을 덮어주는 방식으로 불을 끈다. 일정한 압력으로 균일하게 화원에 분포할 수 있어 화재 진압 후 잔불에 의한 재발화나 방지에 강한 장점을 갖고 있다.

유류화재에서는 표면을 넓게 덮어줄 수 있도록 방사가 이뤄져 산소를 빠르게 차단해 주는 특징을 갖는다.

일반 소화기의 경우 화재를 진압하는 과정에서 좌우로 노즐을 빠르게 흔들어 끄는 것이 유리하지만 ‘Z33’은 이런 번거로움이 없다. 특수 노즐을 통해 약제의 최초 방사부터 각도를 넓게 퍼트리 주기 때문이다.

디자인도 눈길을 끈다. 기존 소화기와 달리 최근 트렌드에 맞춰 무광 도색 방식을 채택했다. 이 디자인은 특허청으로부터 디자인 인증을 받



았다.

김진영 씨더블유소방산업 대표는 “Z33은 고압 분사 형태의 노즐 설계로 에너지 손실없이 유속을 4배나 높였다”며 “실제 사용해 보면 기존 소화기보다 한층 더 높은 방사력과 약제 분포를 체감할 수 있다”고 설명했다.

씨더블유소방산업은 지난 1994년부터 소화기 용기와 밸브, 소화약제 제조·공급까지 25년간 소화기를 전문으로 제조해온 기업이다.

유은영 기자

Sources : FPN Daily (Fire Prevention News)

Eunyoung Yoo reporter

<http://fpn119.co.kr/111873>

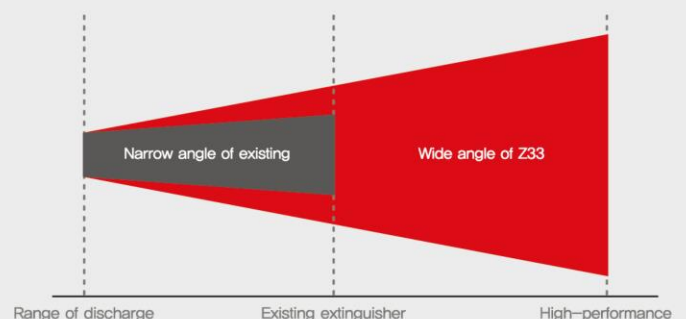
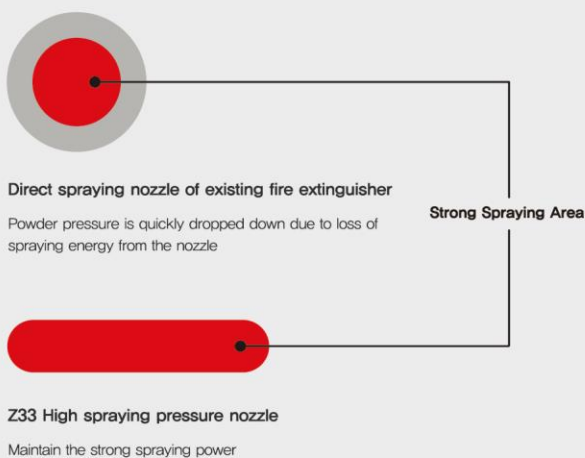
# Korea's First differentialized powder Jet spraying fire extinguisher for 30 years

Z33, 3.3 kg of High-performance power

Jet spraying nozzle equipped fire extinguisher that improves the spraying power by increasing the pressure compare to the existing fire extinguisher



More than **twice stronger than existing 4.5kg fire extinguisher**  
Z33, Jet spraying nozzle extinguisher



► Anyone can be easily sprayed without shake it up, down and side to side

# Why does the Fire suppression fail?

As we know that when you use fire extinguisher that has to be shake from side to side. This is an essential process for the direct spraying nozzle extinguisher by suffocation method of fire.



Fire is rising by chemical

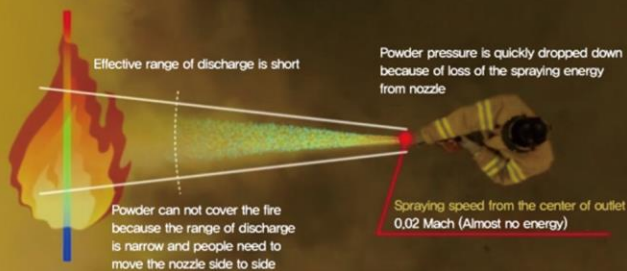
## 3.3kg of Korea general power extinguisher on direct spraying method

When people face a fire, they normally are not able to think that nozzle has to be move from side to side because they are flustered and when they see the fire is rising, they just give up the initial fire

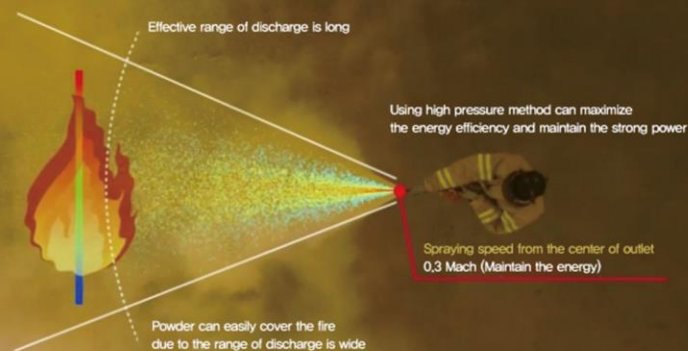


## Z33 Jet spraying nozzle

Z33 extinguisher sprays powder in a fan shape. Covering the fire spot wide enough to block oxygen. It does not need to move to the side to side, and it catches the phenomenon that the fire raises.



Existing direct spraying nozzle extinguisher



Z33 High-pressure spraying nozzle

## Benefit of Z33



Quickly cover large areas of oxygen on screen through **7 times** wide angle



The powder sprays **uniformly** without loss of energy during durations of discharge



The high-pressure spray nozzle design maximizes the flow more than **4 times** and is more powerful than the 3.3kg general powder fire extinguisher in Korea

Even stronger spraying power  
compare to other equitant products!

# Jet Spraying Nozzle



Jet Spraying Nozzle

"Z33 High-performance jet spraying nozzle fire extinguisher"  
that is **twice stronger** than Korea's 3.3kg general powder fire extinguisher  
and it is equivalent with 4.5kg fire extinguisher

Z33 is high-performance jet injection nozzle fire extinguisher which improves the spraying power through pressure increase compared to existing fire extinguisher and increases the instantaneous fire power by adding a wide spraying angle

# Korea's first 3.3 kg fire extinguisher

## Certified **A4,B6,C** class fire extinguishing ability

(4.5kg equivalent)

### COMPARISON



Capacity	A3B5C	Increased 1 Unit	A4B6C	Same	A4B6C
Capacity In	3.3 kg	Same	3.3 kg	Less 26%	4.5 kg
Size	Average 40 cm	Smaller	38.5 cm	Smaller	45~50 cm
Weight	Average 5 kg	Same	4.95 kg	About 2 kg lighter	Average 7 kg
Duration of discharge	12 Sec	1.7 times shorter than the same area	10~12 Sec	Same	12 Sec
Fire on wood	Possible 3 unit	Increased 1 unit	4 unit	Same	4 unit
Distance of discharge	Maintain the range of discharge	Same	Maintain the range of discharge	Same	Maintain the range of discharge
Range of discharge	Fire cannot be controlled due to range of discharge is narrow	Increased 7 times	Range of discharge is wide that can make easily suffocating the oxygen	Increased 7 times	Range of discharge is narrow that can not cover the fire
Maintenance energy	Powder pressure quickly dropped down due to the loss of energy from nozzle	Maintaining 12 Sec	Maintaining strong powder spray power by maximizing the energy efficiency by high pressure spraying method	Maintaining 12 Sec	Powder pressure quickly dropped down due to the loss of energy from nozzle
Flow speed	0.02 Mach (Almost no energy)	Increased 15 times	0.3 Mach (Maintaining movement energy)	Increased 15 times	0.02 Mach (Almost no energy)

## High-Performance Z33 Extinguisher has

a product type approval from KFI and certified design from  
the Korean intellectual property office



특허청



## High-Performance powder Fire extinguisher

Having own extinguisher is a requirement,  
not a choice for in case of fire accident



CW FIRE INDUSTRY CO.,LTD

- It is possible to kill the fire from longer distance than existing fire extinguisher •
- Beginners can easily kill the fire by aiming the right direction •

# CW FIRE INDUSTRY Co.,LTD

Specialized manufacturing fire extinguisher company  
and products made by Korea

since 1994

**CW**  
**KOREA**

**CW fire industry Co.,Ltd**

Since 1994, we have been manufacturing fire extinguisher containers, valves, and fire extinguishers for 25 years

As of 2018, we are producing safe, reliable and good quality products through 30 certification tests

We consider resources and environment to produce environment friendly fire extinguisher and fire extinguishing agent

We also are approved to regenerate old again fire extinguisher resources from May 2016

We registered in Nara Market of Public procurement service as a direct manufacturer of oxidizer in Korea

We strictly operate Korea's first differentiated confidentiality management system and quality control system

## BEST PARTNERS



# Confident on quality

Guarantee 10 years A/S with  
differentiated confidentiality management and quality control

KOREA ECO-LABEL Certificated Manufacturer  
CW KOREA Fire Industry Co.,Ltd





## **CW Fire Industry Co.,Ltd**

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