

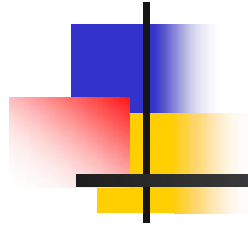
パスワード:kumakuma

Security & Safty

ISO9001  
ISO14001

# BURGLAR – RESISTIVE SAFES & FIRE – RESISTIVE SAFES

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**Kumahira**



November, 2012

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## **YOU FEEL SECURE WITH KUMAHIRA SUPERIOR SAFE SERIES**

KUMAHIRA Burglar-Resistive Safes, Fire-Resistive Safes and Special Fire-Resistive Safes have the purpose and feature for each. Burglar-Resistive Safe is suitable to protect money, important documents against robbery and fire. When you attach importance to Fire-Resistance, you can choose Fire-Resistive Safe which protects the documents from fire.

You need to choose Special Fire-Resistive Safe when you want to protect magnetic media from fire.

You can choose the best safe from KUMAHIRA SAFE SERIES.

# BURGLAR-RESISTANCE PERFORMANCE

## KUMAHIRA ALLOY - Exclusive Protective Armor Plate -

Kumahira Alloy has a superior protection feature against acetylene torch, drill and attack.  
<GM-30b•GM-53b•GM-U30•GM-U53>

### ACETYLENE TORCH TEST



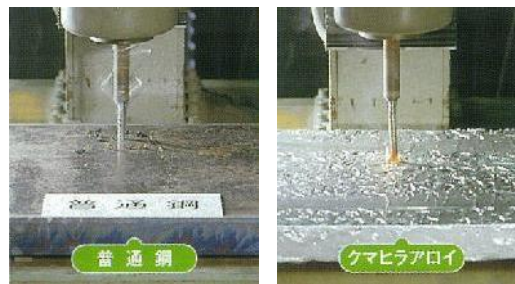
An oxy-acetylene torch cannot penetrate Kumahira Alloy.



### DRILL TEST



Proved completely effective against attacks by super-hand tip drill.



### SHOCK TEST



1,500 kg metal ball was dropped on a slab of Kumahira Alloy from 4m height. Kumahira Alloy was not damaged.



# BURGLAR-RESISTANCE PERFORMANCE

## BURGLAR-RESISTANCE STANDARDS

(BY 日本セーフ・ファニチュア協同組合連合会 :  
JAPAN SAFE FURNITURE COOPERATIVE FEDERATION)

- Burglar-Resistance Standards in JAPAN -

Burglar-Resistance Standards are divided into various classes (TRTL/ TL/ TS) depend on the test method and tool.

TRTL (Endurance Test against Torch and Tool)

TRTL is the standard to be endured for the specified time by burning off with gas burner and breaking with tools like hammer or drill. Test time is 60 min. for TRTL-60 and 15 min. for TRTL-15.

<GM-30b・GM-53b (TRTL-60)/ GX Series (TRTL-15)>



TL (Endurance Test against Tool)

TL is the standard to be endured for the specified time by breaking with tools like hammer or drill.

Test time is 30 min. for TL-30 and 15 min. for TL-15.

<GX Series (TL-30)/ PS Series (TL-15)>



TS (Endurance Test against Tool)

TS is the standard to be endured for the specified time by breaking tools like bar or graver. Test time is 15 min. for TS-15.

<FM4, FM2, FM1, HS, D Series>



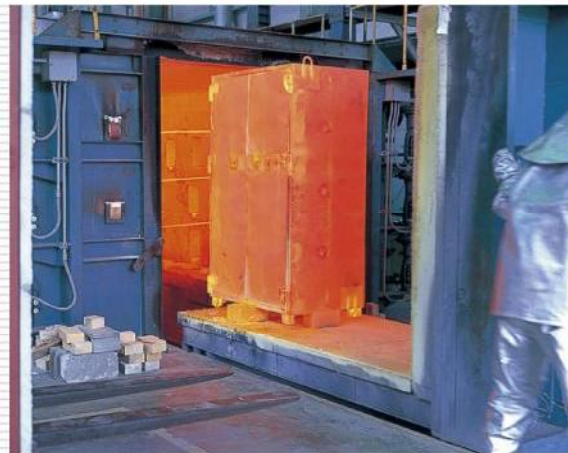
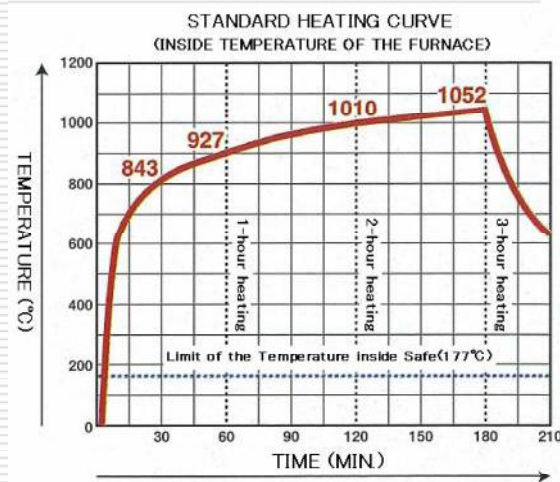
# FIRE-RESISTANCE PERFORMANCE

## FIRE-RESISTANCE STANDARDS

(BY JIS ; JAPANESE INDUSTRIAL STANDARDS COMMITTEE)

- Standard Heating Test for Paper -

Put the test pieces (newspaper) inside the safe and heat the safe in the furnace for necessary hours.  
(Temperature inside the furnace - 1-hour : MAX 927°C 2-hour : MAX 1010°C 3-hour : MAX 1052°C)  
The inside temperature of the safe should be kept under 177°C during the test.  
After heating, check the test pieces.



# FIRE-RESISTANCE PERFORMANCE

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## FIRE-RESISTANCE STANDARDS

(BY JIS ; JAPANESE INDUSTRIAL STANDARDS COMMITTEE)

- Rapid Heating/ Impact Test for Paper -

Rapid heating and impact test is the test to confirm the strength of the safe in case of the fire accident at gas station or chemical factory which is supposed to rapid high-temperature.

Before putting the safe into the furnace, heat the furnace and keep at 1090°C. Then, put the safe into the furnace and heat it for 30 min. at 1090°C.

Additionally keep heating 30 min. for 3-hour fire-resistance safe

15 min. for 2-hour fire-resistance safe

0 min. for 1-hour fire-resistance safe,

and drop the safe from 9.1m height.

And then, start heating again 60 min. for 3-hour fire-resistance safe

45 min. for 2-hour fire-resistance safe

30 min. for 1-hour fire-resistance safe.

After the heating, wait until the safe cools down and check the damage of the body and test pieces (newspaper) in the safe.



# MARKS

## BURGLAR-RESISTANCE (JAPAN SAFE FURNITURE COOPERATIVE FEDERATION)



TRTL-60  
Against torch and tool 60 min.



TRTL-15  
Against torch and tool 15 min.



TL-30  
Against tool 30 min.



TL-15  
Against tool 15 min.



TS-15  
Against tool 15 min.

## FIRE-RESISTANCE for PAPER (JIS : JAPANESE INDUSTRIAL STANDARDS)



3-hour fire-resistance



2-hour fire-resistance



1-hour fire-resistance



Rapid heating/ Impact resistance

## FIRE-RESISTANCE for FLEXIBLE DISK CARTRIDGE (JIS : JAPANESE INDUSTRIAL STANDARDS)



FR•1T  
1-hour fire-resistance



# FIRE - RESISTIVE SAFE

TS-15 BY JAPAN SAFE FURNITURE  
2-HOUR FIRE RESISTANCE AND RAPID HEATING/  
IMPACT RESISTANCE BY JIS - PR-2TKS

FM2 Series – combination lock type -



## FM2-12b

OUTSIDE : W578 X D632 X H1135 mm  
INSIDE : W380 X D360 X H870 mm  
NET WEIGHT : 280 kg  
CAPACITY : 122 lit.  
LOCK :  
1 X 3-WHEEL COMBINATION LOCK  
1 X CYLINDER LOCK  
WITH RELOCKING DEVICE  
ACCESSORIES :  
2 X ADJUSTABLE SHELF  
1 X DRAWER  
DRAWER INSIDE :  
W359 X D280 X H101 mm