

1

00:00:00,000 --> 00:00:07,000

look like it but we're professionals do us a favor don't try this at home

2

00:00:09,240 --> 00:00:12,720

on this episode of mythbusters

3

00:00:12,720 --> 00:00:16,080

it's calamitous kitchen catastrophes

4

00:00:16,080 --> 00:00:18,000

what could be wrong with my cooking

5

00:00:18,000 --> 00:00:23,280

adam and janey pitch a glass of water into a grease fire inferno

6

00:00:23,280 --> 00:00:27,520

to find out if it really throws up a 30-foot fireball

7

00:00:27,600 --> 00:00:30,320

I think we're gonna need a smaller scale

8

00:00:30,320 --> 00:00:32,480

meanwhile Carrie Grant and Tori

9

00:00:32,480 --> 00:00:33,320

alright we're hot

10

00:00:33,320 --> 00:00:36,680

ask if a microwave can set off C4

11

00:00:36,680 --> 00:00:40,760

explosions are guaranteed

12

00:00:40,760 --> 00:00:43,360

then they sniff out weather cheese

13

00:00:43,360 --> 00:00:44,840

the enemy's attacking

14

00:00:44,840 --> 00:00:48,400

can ever be used as cannonballs

15

00:00:48,400 --> 00:00:53,400

it's lethal people

16

00:00:53,520 --> 00:00:55,400

who are the mythbusters

17

00:00:55,400 --> 00:00:56,320

Adam Savage

18

00:00:56,320 --> 00:00:57,600

I feel perfectly normal

19

00:00:57,600 --> 00:00:59,040

and Jamie Heineman

20

00:00:59,040 --> 00:01:00,320

pain is your friend

21

00:01:00,320 --> 00:01:05,640

between them more than 30 years of special effects experience

22

00:01:05,640 --> 00:01:07,680

joining them

23

00:01:07,680 --> 00:01:09,920

Tori Balechi

24

00:01:09,920 --> 00:01:12,360

Grant Imahara

25

00:01:12,360 --> 00:01:15,480

and Carrie Byron

26

00:01:15,480 --> 00:01:18,440

they don't just tell them this

27

00:01:18,440 --> 00:01:19,720

it didn't mess around

28

00:01:19,720 --> 00:01:26,720

they put them to the test

29

00:01:37,520 --> 00:01:39,080

kitchen catastrophes

30

00:01:39,080 --> 00:01:40,080

that's our story

31

00:01:40,080 --> 00:01:42,000

actually a whole episode

32

00:01:42,000 --> 00:01:45,800

and we're not talking just like fallen souffles and burnt flans here

33

00:01:45,800 --> 00:01:47,680

no these are real disasters

34

00:01:47,680 --> 00:01:48,600

so what are we doing

35

00:01:48,600 --> 00:01:49,680

well I'll give you a hint

36

00:01:49,680 --> 00:01:51,680

you've got a source of ignition

37

00:01:51,680 --> 00:01:52,760

you've got a fuel

38

00:01:52,760 --> 00:01:54,480

think biodiesel

39

00:01:54,480 --> 00:01:58,680

add to that the air that you breathe and you've got a grease fire

40

00:01:58,680 --> 00:02:00,160

we're doing grease fires

41

00:02:00,160 --> 00:02:03,760

more specifically the trying to extinguish a grease fire with a cup of water

42

00:02:03,760 --> 00:02:06,000

will cause a 30-foot fireball

43

00:02:06,000 --> 00:02:07,880

that sounds genuinely tasty

44

00:02:07,880 --> 00:02:11,360

let's dig in

45

00:02:11,360 --> 00:02:14,080

grease fires are no laughing matter

46

00:02:14,080 --> 00:02:16,480

every year they cost millions of dollars

47

00:02:16,480 --> 00:02:19,280

and claim hundreds of lives

48

00:02:19,280 --> 00:02:21,560

but are these facts and figures

49

00:02:21,560 --> 00:02:25,320

fact or fiction

50

00:02:25,320 --> 00:02:28,800

can it really be true that a mere eight ounces of water

51

00:02:28,800 --> 00:02:30,640

poured over a grease blaze

52

00:02:30,640 --> 00:02:33,640

will kick start a 30-foot fireball

53

00:02:33,640 --> 00:02:36,480

or is it just a flash in the pan

54

00:02:36,480 --> 00:02:38,400

always the costumes with you

55

00:02:38,400 --> 00:02:41,880

I'm just dressed and ready for whatever the plan might be

56

00:02:41,880 --> 00:02:42,960

what is it

57

00:02:42,960 --> 00:02:44,040

we set up a stove

58

00:02:44,040 --> 00:02:46,320

we set up a 30-foot scale behind it

59

00:02:46,320 --> 00:02:47,760

we put oil on the stove

60

00:02:47,760 --> 00:02:49,040

heat it until it burns

61

00:02:49,040 --> 00:02:51,040

introduce eight ounces of water to it

62

00:02:51,040 --> 00:02:52,240

and stand back

63

00:02:52,240 --> 00:02:53,120

sounds great

64

00:02:53,120 --> 00:02:56,800

let's do it

65

00:02:56,800 --> 00:02:59,920

Adams in a hurry to light a fire under this myth

66

00:02:59,920 --> 00:03:02,880

luckily they'll be under adult supervision

67

00:03:02,880 --> 00:03:05,120

in our ongoing quest to get some quality playtime

68

00:03:05,120 --> 00:03:06,280

with every single fire department

69

00:03:06,280 --> 00:03:08,240

within a 50-mile radius of myth busters

70

00:03:08,240 --> 00:03:09,640

we've come today

71

00:03:09,640 --> 00:03:12,480

to the south San Francisco fire department's training facility

72

00:03:12,480 --> 00:03:15,600

where they've agreed to let us set some grease fires

73

00:03:16,560 --> 00:03:20,560

but before Adam fans the flames of his pyromania

74

00:03:20,560 --> 00:03:22,720

he's taking on his acrophobia

75

00:03:22,720 --> 00:03:24,480

this is just as much fun as it looks

76

00:03:24,480 --> 00:03:26,320

it's also as scary as it looks

77

00:03:26,320 --> 00:03:27,600

three stories up

78

00:03:27,600 --> 00:03:30,640

he's setting up their homemade benchmark scale

79

00:03:30,640 --> 00:03:33,200

this scale right here is 30 feet tall

80

00:03:33,200 --> 00:03:37,600

and the myth says that we're supposed to get a fireball 30 feet tall

81

00:03:37,600 --> 00:03:39,280

this will tell us if that's correct

82

00:03:40,080 --> 00:03:42,160

personally it strikes me as a little ambitious

83

00:03:43,360 --> 00:03:45,520

it sure seems like a tall order

84

00:03:45,760 --> 00:03:50,480

but the guys are cooking up their own version of this mythical kitchen catastrophe

85

00:03:50,480 --> 00:03:52,640

and they've lined up all the ingredients

86

00:03:53,680 --> 00:03:56,880

so what we've got here is a frying pan full of two quarts of oil

87

00:03:56,880 --> 00:03:58,880

we've got a thermistor to check how hot it's getting

88

00:03:58,880 --> 00:04:02,000

we've got eight ounces of water to dump on it once we catch it on fire

89

00:04:02,000 --> 00:04:06,160

and we've got a gauge to tell us if the fireball we get is in fact 30 feet tall

90

00:04:06,160 --> 00:04:08,000

well there's only one way to find out

91

00:04:09,280 --> 00:04:13,520

for the first of three oils canola it's flame on

92

00:04:13,520 --> 00:04:14,480

we're good to go Adam

93

00:04:15,120 --> 00:04:16,320

it's heating up fast

94

00:04:16,320 --> 00:04:19,040

515 degrees and it's only been like six minutes

95

00:04:19,040 --> 00:04:20,240

this is nice and fast

96

00:04:20,240 --> 00:04:24,560

100 degrees later on and the canola reaches its flash point

97

00:04:24,560 --> 00:04:26,960

the temperature at which it can start to burn

98

00:04:26,960 --> 00:04:28,960

oh i saw a little bit of fire did you see that

99

00:04:29,840 --> 00:04:31,120

we're past the flash point

100

00:04:32,240 --> 00:04:37,600

but once it gets to 680 degrees it reaches a state called auto ignition

101

00:04:37,600 --> 00:04:39,760

where it's going to burst into flame

102

00:04:39,760 --> 00:04:42,320

and there's nothing anybody can do about it

103

00:04:42,320 --> 00:04:43,680

600 and how much

104

00:04:43,680 --> 00:04:45,120

645

105

00:04:45,120 --> 00:04:47,440

oh we're close to the auto ignition point

106

00:04:47,440 --> 00:04:49,120

and i see flame on it

107

00:04:49,120 --> 00:04:51,440

all right i see that's a grease fire

108

00:04:52,080 --> 00:04:54,160

yep that's a grease fire all right

109

00:04:54,160 --> 00:04:57,280

and every fire safety rule in the land says

110

00:04:57,280 --> 00:04:59,760

do not do what Adam's about to

111

00:05:00,320 --> 00:05:02,480

but how bad can it really be

112

00:05:02,480 --> 00:05:05,200

all right canola oil putting out a grease fire in my kitchen

113

00:05:05,200 --> 00:05:08,800

perhaps unwisely in three two one

114

00:05:14,000 --> 00:05:14,480

wow

115

00:05:17,920 --> 00:05:19,520

that was a hell of a thing

116

00:05:19,520 --> 00:05:20,480

it was

117

00:05:20,480 --> 00:05:21,920

proof if it was needed

118

00:05:22,720 --> 00:05:23,920

grease is the word

119

00:05:25,520 --> 00:05:28,320

i was a little surprised at how large the fire was

120

00:05:28,320 --> 00:05:29,760

it came off of this

121

00:05:29,760 --> 00:05:31,920

i'm glad we set this thing up remotely

122

00:05:31,920 --> 00:05:33,680

because uh we would have had a problem

123

00:05:33,680 --> 00:05:35,920

if we were doing it right next to the stove

124

00:05:36,640 --> 00:05:38,800

sure it's a horrific fireball

125

00:05:38,800 --> 00:05:40,880

but before we get too carried away

126

00:05:41,760 --> 00:05:43,040

oh gosh

127

00:05:44,080 --> 00:05:45,200

let's not forget

128

00:05:45,200 --> 00:05:47,760

the myth says with eight ounces of water

129

00:05:47,760 --> 00:05:49,520

it should go 30 feet

130

00:05:50,240 --> 00:05:52,480

well 15 feet

131

00:05:53,360 --> 00:05:54,720

oh my god 20 feet

132

00:05:55,360 --> 00:05:58,480

that's still 10 feet or 30 short

133

00:05:59,280 --> 00:06:00,960

but the guys aren't done yet

134

00:06:00,960 --> 00:06:03,680

a closer look at exactly what's going on

135

00:06:03,680 --> 00:06:06,640

and you can see why this myth may just be possible

136

00:06:07,280 --> 00:06:10,800

well that water went from you know room temperature

137

00:06:10,880 --> 00:06:13,200

to all of a sudden the temperature of the oil

138

00:06:13,200 --> 00:06:15,520

which was around 700 or 800 degrees

139

00:06:15,520 --> 00:06:17,360

that means it turned to steam

140

00:06:17,360 --> 00:06:19,520

now when water turns to steam

141

00:06:19,520 --> 00:06:23,280

it expands up to around 1600 times the volume

142

00:06:23,920 --> 00:06:26,720

that expansion was actually an explosion

143

00:06:26,720 --> 00:06:29,120

that exploded upward out of this pan

144

00:06:29,120 --> 00:06:31,360

carrying all this oil along with it

145

00:06:31,360 --> 00:06:33,440

and since everything's so hot

146

00:06:33,440 --> 00:06:35,600

it all just becomes a big fireball

147

00:06:37,280 --> 00:06:38,960

but will it be big enough

148

00:06:38,960 --> 00:06:40,160

one thing's for sure

149

00:06:40,160 --> 00:06:42,720

the mythbusters are going to do everything they can

150

00:06:42,720 --> 00:06:46,640

to push the feisty fireball to its utter limits

151

00:06:46,640 --> 00:06:47,840

I guess you shouldn't do that

152

00:06:49,360 --> 00:06:50,160

let's do it again

153

00:07:00,400 --> 00:07:02,320

okay kitchen nightmares what do we got

154

00:07:02,320 --> 00:07:05,600

first up we have a movie myth about a kitchen appliance disaster

155

00:07:06,240 --> 00:07:07,040

go on

156

00:07:07,040 --> 00:07:08,880

all right so the movie is gross point blank

157

00:07:08,880 --> 00:07:12,000

and in this famous scene a bad guy inside of a convenience store

158

00:07:12,000 --> 00:07:14,000

throws a bomb inside of a microwave

159

00:07:14,000 --> 00:07:17,440

now the bomb looks like some c4 with an electrical device attached to it

160

00:07:17,440 --> 00:07:20,560

he sticks it into the microwave turns it up to 60 seconds

161

00:07:20,560 --> 00:07:21,520

yeah I know this myth

162

00:07:21,520 --> 00:07:23,680

and the hero just manages to get out of the store

163

00:07:23,680 --> 00:07:25,440

in time for the microwave to go ding

164

00:07:25,440 --> 00:07:27,040

and then kaboom awesome

165

00:07:28,560 --> 00:07:30,800

sounds like a recipe for disaster

166

00:07:31,440 --> 00:07:37,280

but can a microwave really be used to set off an elaborately wired c4 bomb

167

00:07:37,280 --> 00:07:40,960

and can it be set to detonate in exactly 60 seconds

168

00:07:42,160 --> 00:07:46,160

okay so it sounds like all we need are some microwaves and plastic explosives and a date of the bomb

169

00:07:46,160 --> 00:07:46,800

range

170

00:07:46,800 --> 00:07:48,560

I think we need to do three tests

171

00:07:48,560 --> 00:07:50,880

first test c4 in the microwave alone

172

00:07:50,880 --> 00:07:53,920

second test c4 with hollywood wires

173

00:07:53,920 --> 00:07:55,040

hollywood wires

174

00:07:55,040 --> 00:07:58,240

you know coils springs nothing genuine just like in the movies

175

00:07:58,240 --> 00:08:02,000

yeah and then the third and final test would be c4 with a proper fuse

176

00:08:02,000 --> 00:08:05,520

ah I love cooking with c4 my favorite ingredient

177

00:08:06,480 --> 00:08:10,080

c4 cuisine is best enjoyed and is safest

178

00:08:10,080 --> 00:08:11,920

down home on the bomb range

179

00:08:12,560 --> 00:08:15,920

now based on the words in the movie gross point blank we know a few things

180

00:08:15,920 --> 00:08:17,760

first it's in a convenience store

181

00:08:17,760 --> 00:08:19,520

second it's physical size

182

00:08:19,520 --> 00:08:22,480

and third it's power level which is a thousand watts

183

00:08:22,480 --> 00:08:25,760

now we purposely avoided using modern inverter technology

184

00:08:25,760 --> 00:08:28,080

and went old school which is what this baby is

185

00:08:28,720 --> 00:08:30,800

in other words besides the color

186

00:08:30,800 --> 00:08:31,680

all right we're hot

187

00:08:31,680 --> 00:08:33,600

it's identical to the one in the film

188

00:08:35,760 --> 00:08:37,280

now it's time to get serious

189

00:08:38,240 --> 00:08:42,240

all right we need to set these microwaves off remotely so that no one gets hurt what do you have

190

00:08:42,240 --> 00:08:44,400

uh we got a bomb robot

191

00:08:44,400 --> 00:08:45,840

I love those two words

192

00:08:46,400 --> 00:08:47,360

bomb robot

193

00:08:47,360 --> 00:08:54,000

robot tragic and battle bot champion grant is about to get a glimpse of geek heaven

194

00:08:56,000 --> 00:08:57,120

I think it's 11th first site

195

00:08:58,320 --> 00:09:00,800

our friend welcome our new robotic overlords

196

00:09:01,760 --> 00:09:04,800

while grant struggles with the drool control

197

00:09:04,800 --> 00:09:07,120

tori and carry do a little matchmaking

198

00:09:07,120 --> 00:09:08,560

come on she'll like you

199

00:09:08,560 --> 00:09:09,680

talk to her

200

00:09:09,680 --> 00:09:12,880

hi nice actuator you have there

201

00:09:12,880 --> 00:09:15,360

but enough of the robot romance please

202

00:09:15,360 --> 00:09:16,640

she may be a looker

203

00:09:16,640 --> 00:09:18,880

this is much better than pushing the button and running

204

00:09:18,880 --> 00:09:20,000

absolutely

205

00:09:20,000 --> 00:09:21,760

but is she any good in the kitchen

206

00:09:26,800 --> 00:09:27,680

stop touching this

207

00:09:27,680 --> 00:09:30,960

and luckily as well as the remarkable robot

208

00:09:30,960 --> 00:09:37,200

the bomb squad also brought along today's other key explosive ingredient c4

209

00:09:37,200 --> 00:09:39,760

this is c4 in its bulk form

210

00:09:39,760 --> 00:09:44,720

it has an explosive called rdx contained inside of a plastic compound that keeps it stable

211

00:09:44,720 --> 00:09:47,760

for example you could drop it you could shoot it with a gun

212

00:09:47,760 --> 00:09:49,280

you could light it out of fire

213

00:09:49,280 --> 00:09:52,080

but none of these things alone is enough to detonate it

214

00:09:52,640 --> 00:09:55,920

we need the combination of intense heat

215

00:09:55,920 --> 00:09:58,000

an incredible shock to get it to go off

216

00:10:00,000 --> 00:10:02,960

it's gonna be very interesting to see what it will take

217

00:10:02,960 --> 00:10:05,280

to get this to go off inside of a microwave

218

00:10:05,280 --> 00:10:08,000

that it will so watch the plan

219

00:10:08,000 --> 00:10:09,920

for this kitchen nightmare myth

220

00:10:09,920 --> 00:10:12,160

we have three tests to our experiment

221

00:10:12,160 --> 00:10:14,080

number one the control test

222

00:10:14,080 --> 00:10:17,360

now this is just a hunk of c4 in the microwave for 60 seconds

223

00:10:17,360 --> 00:10:19,360

test two the hunk of c4

224

00:10:19,360 --> 00:10:20,800

but with a hollywood wire system

225

00:10:20,800 --> 00:10:22,800

we're emulating exactly what we saw in the clip

226

00:10:22,800 --> 00:10:25,120

number three which is a hunk of c4

227

00:10:25,120 --> 00:10:26,960

hollywood wires and a blasting cap

228

00:10:26,960 --> 00:10:31,200

so maybe we can get that microwave to look a little like this car here

229

00:10:31,200 --> 00:10:34,560

now microwaving c4 could make it unstable

230

00:10:34,560 --> 00:10:36,800

so they've got a backup bang plan

231

00:10:37,600 --> 00:10:41,120

now for these tests in case the c4 inside the microwave doesn't go off

232

00:10:41,120 --> 00:10:43,680

we need to be able to render the situation safe

233

00:10:43,680 --> 00:10:45,760

we have a container of water that we have c4 in

234

00:10:45,760 --> 00:10:47,360

that we can set off from the bunker

235

00:10:47,360 --> 00:10:49,040

now since the water is incompressible

236

00:10:49,120 --> 00:10:51,440

it'll shred this microwave completely

237

00:10:51,440 --> 00:10:54,080

so with the microwave the safety system

238

00:10:54,080 --> 00:10:56,240

and the robot on standby

239

00:10:56,240 --> 00:10:58,480

everything is set for test one

240

00:10:58,480 --> 00:11:02,240

c4 only for 60 seconds on full power

241

00:11:03,600 --> 00:11:04,720

oh that's so great

242

00:11:08,320 --> 00:11:10,560

bingo the robot starts the timer

243

00:11:10,560 --> 00:11:11,840

and she's off to safety

244

00:11:12,400 --> 00:11:14,080

retreat robot

245

00:11:14,080 --> 00:11:16,880

but the robot retreat may not have been needed

246

00:11:16,880 --> 00:11:20,960

since after a full minute there's a chronic lack of cooking action

247

00:11:23,520 --> 00:11:28,400

so c4 on its own for 60 seconds is not going to detonate in the microwave

248

00:11:29,040 --> 00:11:33,360

so i guess to make this safe we better backup blow it up

249

00:11:33,360 --> 00:11:34,800

all right you ready

250

00:11:36,160 --> 00:11:39,040

fire in the hole in three two one

251

00:11:40,800 --> 00:11:41,600

whoa

252

00:11:42,800 --> 00:11:44,000

now it's all safe

253

00:11:44,560 --> 00:11:47,520

yep test ones are done

254

00:11:47,520 --> 00:11:50,080

the only blast came courtesy of the failsafe

255

00:11:51,760 --> 00:11:56,080

so will the movie prop wiring system cook the c4's goose

256

00:11:56,080 --> 00:11:59,200

or is it just a half baked hollywood idea

257

00:12:00,080 --> 00:12:02,240

later on that looks so good

258

00:12:02,240 --> 00:12:04,800

can cheese really replace cannonballs

259

00:12:06,960 --> 00:12:09,600

plus adam gives jaynie a surprise

260

00:12:09,600 --> 00:12:12,560

the ultimate in grease fire extinguishers

261

00:12:12,560 --> 00:12:13,520

you did

262

00:12:13,520 --> 00:12:15,040

i did

263

00:12:22,960 --> 00:12:25,840

not all kitchen fire should be doused with water

264

00:12:27,840 --> 00:12:30,640

as adam and jaynie have just found out

265

00:12:30,640 --> 00:12:32,320

oh my god 20 feet

266

00:12:32,320 --> 00:12:38,080

but the myth they're testing says eight ounces of water can cause a 30 foot high inferno

267

00:12:38,080 --> 00:12:40,560

canola oil peaked at only 20

268

00:12:40,800 --> 00:12:44,480

so next up it's peanut oil

269

00:12:44,480 --> 00:12:50,080

so the auto ignition point of peanut oil is over 200 degrees hotter than the auto ignition point of

270

00:12:50,080 --> 00:12:56,000

canola oil will that translate to a more energetic fireball that's even bigger than the last one

271

00:12:56,720 --> 00:12:58,960

i don't know but my intuition says yes

272

00:12:59,920 --> 00:13:03,360

once the peanut oil is heated to 850 degrees

273

00:13:03,360 --> 00:13:06,560

it's time to put adam's intuition to the test

274

00:13:06,560 --> 00:13:10,800

this is water poured on a peanut oil fire on your stove

275

00:13:10,800 --> 00:13:13,920

in three two one

276

00:13:19,760 --> 00:13:21,840

i've felt that from here yeah

277

00:13:26,560 --> 00:13:30,800

that was 30 feet man i've watched it that was 30 feet

278

00:13:30,800 --> 00:13:33,440

so i guess the myth is true it's time to go home

279

00:13:34,000 --> 00:13:36,000

whoa there jayme not so fast

280

00:13:36,800 --> 00:13:37,680

up she goes

281

00:13:38,320 --> 00:13:39,280

are you sure

282

00:13:39,280 --> 00:13:40,000

five feet

283

00:13:41,680 --> 00:13:43,520

really really sure

284

00:13:43,520 --> 00:13:44,160

15

285

00:13:45,120 --> 00:13:48,880

that the actual fireball went up 30 feet

286

00:13:48,880 --> 00:13:50,480

yeah i don't think that's quite 30 feet

287

00:13:51,280 --> 00:13:56,800

yeah the smoke kind of got up that high but it looks to me like it's uh it's maybe 25 at best

288

00:13:56,800 --> 00:13:58,480

maybe yeah it's more like 20

289

00:13:59,040 --> 00:14:02,160

so let's meet today's third and final contestant

290

00:14:03,120 --> 00:14:07,280

it's not only delicious and nutritious but it's flammable

291

00:14:09,040 --> 00:14:12,720

sure lard has lots of great qualities lard

292

00:14:13,360 --> 00:14:17,120

but is one of them fueling a 30-foot kitchen fireball

293

00:14:17,120 --> 00:14:22,320

okay a seemingly harmless glass of water on a flaming pan of lard

294

00:14:23,440 --> 00:14:25,760

and three two one

295

00:14:32,160 --> 00:14:36,400

that's a sizzle it's a nice try but no cigar

296

00:14:37,200 --> 00:14:42,400

with no fireball reaching 30 feet the myth's looking a bit far-fetched

297

00:14:42,400 --> 00:14:45,680

but rest assured the fireworks ain't over yet

298

00:14:46,720 --> 00:14:49,600

no 30 feet i think we got a little more work to do

299

00:14:49,600 --> 00:14:50,320

i think you're right

300

00:14:52,080 --> 00:14:56,560

coming up next on mythbusters we're so crazy we're sticking c4 in a microwave to see if it'll

301

00:14:56,560 --> 00:14:59,600

explode will it work you better come back to find out

302

00:15:00,240 --> 00:15:05,040

two one then adam and jay be searched for bigger fireballs heats up

303

00:15:15,040 --> 00:15:21,040

microwaves are a kitchen boon this frozen roast beef would require hours to defrost at room

304

00:15:21,040 --> 00:15:29,360

temperature but can they also be a kitchen boom according to hollywood they can c4 with

305

00:15:29,440 --> 00:15:33,520

one minute of full power is apparently a recipe for disaster

306

00:15:35,360 --> 00:15:39,360

but when the guys tried it they got zipped and cari knows why

307

00:15:40,000 --> 00:15:46,160

microwaves cook food by emitting radio waves at about 2.5 gigahertz now these radio waves have

308

00:15:46,160 --> 00:15:53,760

two interesting properties one they are absorbed by water fat and sugar which converts into atomic

309

00:15:53,760 --> 00:16:00,480

motion which heats up the food two they are not absorbed by plastic glass or ceramics or at least

310

00:16:00,480 --> 00:16:08,080

most of those now c4 is called a plastic explosive so c4 didn't actually even heat in the microwave

311

00:16:08,080 --> 00:16:12,240

which means we didn't get either one of the criteria that you need for detonation for c4 which is

312

00:16:12,240 --> 00:16:20,480

heat and shockwave so next up is hollywood wires the exact prop configuration used in the movie

313

00:16:20,480 --> 00:16:27,280

got all the little parts here managed to identify them the design is unlike any known fuse system

314

00:16:27,280 --> 00:16:34,880

just a block of c4 with a whole set of switches wires and even a nine-volt pattern here is that coil

315

00:16:35,440 --> 00:16:40,960

but can this unusual wiring system really create a convenience store catastrophe

316

00:16:42,800 --> 00:16:47,840

test two hollywood wires all right so we have the microwave set for 60 seconds all right time

317

00:16:47,840 --> 00:16:54,800

to deploy the robot he loves saying that now the microwaves in an oven like this cycle more than

318

00:16:54,800 --> 00:17:03,520

two billion times a second okay all right get that robot out of there run come on food easily

319

00:17:03,520 --> 00:17:11,040

absorbs these waves but they create havoc with metal causing it to arc spark and generally go haywire

320

00:17:11,760 --> 00:17:19,440

microwave is on fire oh geez oh my gosh you could say now they're really cooking

321

00:17:20,320 --> 00:17:27,040

that is cool and all that c4 is just burning now as the timer counts down the flames go up

322

00:17:27,040 --> 00:17:32,160

but amazingly there's still no explosion that's really cool that's definitely not what happened

323

00:17:32,160 --> 00:17:38,400

in the movie though no talking about the kitchen nightmare there's plenty of fire in the hole but

324

00:17:38,400 --> 00:17:49,680

no explosion at least not until the failsafe is triggered in three two one oh yeah it still works

325

00:17:51,840 --> 00:17:59,040

yep the backup boom works a treat but the fuse system as used in the movie didn't set off the c4

326

00:17:59,040 --> 00:18:05,680

in the oven but there's still one last option to test the c4 actually caught on fire but that's good

327

00:18:05,680 --> 00:18:11,200

for the myth because if we have some kind of blasting cap with the fuse in there if the c4 catches

328

00:18:11,200 --> 00:18:16,800

on fire it's going to light that fuse it potentially set off the c4 the only trouble is that neither

329

00:18:16,800 --> 00:18:23,360

the mythbusters nor jd can spot a blasting cap in the movie scene but hey let's give the film the

330

00:18:23,360 --> 00:18:27,520

benefit of the doubt this part of the experiment has me really exciting because we have the c4

331

00:18:27,520 --> 00:18:33,120

burning and we have a blasting cap which could be set off by the fire which could set off the c4

332

00:18:33,120 --> 00:18:41,200

which could give us boom and maybe maybe make the smith plausible now in a c4 explosion gases

333

00:18:41,200 --> 00:18:50,240

travel at an incredible 18 000 miles per hour nothing can outrun that human or robot so for

334

00:18:50,240 --> 00:19:00,320

test three grants making sure his new best friend is super safe remote control and with it a remote

335

00:19:00,320 --> 00:19:06,320

controlled finger here's how we'll set it up there'll be a block of wood that acts as our safety

336

00:19:06,320 --> 00:19:11,360

when we're ready to go the robot will pull the block of wood away and that will leave the finger

337

00:19:11,360 --> 00:19:19,200

free to push the button now with enough c4 in the oven to demolish a truck grants finger

338

00:19:19,200 --> 00:19:23,920

may never be seen again all right so we are all set to go we got the c4 bomb in place with the

339

00:19:23,920 --> 00:19:28,400

hollywood wires but not only that we have two different kinds of blasting caps just so that

340

00:19:28,400 --> 00:19:36,080

we're covered oh it's live all right so as soon as that robot is safe yeah i can start the microwave

341

00:19:36,080 --> 00:19:43,040

that's right i give it the finger all right here we go in three two one

342

00:19:43,120 --> 00:19:47,680

oh

343

00:20:03,360 --> 00:20:09,600

it was indeed beautiful but it was also fast exploding 30 times quicker than in the movie

344

00:20:09,680 --> 00:20:15,920

yeah you probably wouldn't have had time to get out of the convenience store definitely would

345

00:20:15,920 --> 00:20:21,760

have time to just put it in and dilly dally i mean it was like spark detonation from the

346

00:20:21,760 --> 00:20:28,560

charred evidence it's clear that with the right fuse you can set off c4 in a microwave you think

347

00:20:28,560 --> 00:20:34,560

we hated cooking or something but if you think you've got 60 seconds to clear the room you'd be

348

00:20:34,560 --> 00:20:39,200

toast all right so how we call in this one you know the idea of setting off c4 in a microwave

349

00:20:39,200 --> 00:20:43,680

is possible if you have a blasting cap if you have a blasting cap however as far as timing goes

350

00:20:43,680 --> 00:20:51,280

this movie myth looks busted busted busted how cool was that dude like say something to her

351

00:20:51,920 --> 00:21:04,000

dude these pinches go both ways is that too much too soon yeah maybe

352

00:21:04,800 --> 00:21:12,480

it's a fact that most home fires start on stoves ignorance is the cause of panic when fire breaks

353

00:21:12,480 --> 00:21:18,560

out but it's looking like fiction that eight ounces of water on a grease fire equals a 30-foot

354

00:21:18,560 --> 00:21:25,600

fireball let's stop 30 however all is not lost in order to get that super-sized mythical fireball

355

00:21:25,600 --> 00:21:31,360

they're going to downsize the experiment and experiment with pot shapes we're still on the

356

00:21:31,360 --> 00:21:38,000

fire training center but this time in a fireproof room we're going down in scale with our oil and

357

00:21:38,000 --> 00:21:42,480

water experiments to find out what we need to go up in scale we're going to use some cute little

358

00:21:42,480 --> 00:21:49,040

pots and pans like this to create some cute little kitchen conflagrations all in an effort to create

359

00:21:49,040 --> 00:21:56,960

that elusive 30-foot high fireball so get set for mayhem in miniature will the physical dimensions

360

00:21:56,960 --> 00:22:01,280

of the pan make a difference to the height of the fireball so our scale experiment is pretty much

361

00:22:01,280 --> 00:22:07,120

ready to go i've got several other types of frying pans and uh james beret liner just to find out

362

00:22:07,120 --> 00:22:12,800

which shape we think is most energetic just like their large-scale outdoor tests they've got a gauge

363

00:22:12,800 --> 00:22:18,800

behind the stove that will measure the fireball heights now although the oil to water ratio is

364

00:22:18,800 --> 00:22:24,720

the same as their earlier tests eight to one okay that's eight teaspoons full of oil adams worried

365

00:22:24,720 --> 00:22:30,880

the miniature amounts may be too small right well now we need one teaspoon up there so first up it's

366

00:22:30,880 --> 00:22:38,240

a quick fireball test to see if the mini me measure will still do the job here we go scale

367

00:22:38,240 --> 00:22:46,480

kitchen conflagration one teaspoon of water wow

368

00:22:52,080 --> 00:22:58,320

yep it's frightening stuff even a tiny amount of water can still cause a kitchen catastrophe

369

00:22:59,280 --> 00:23:01,520

i think we're going to need a smaller scale

370

00:23:03,360 --> 00:23:08,080

but we are continuing to discover that there is i think the scientific term is

371

00:23:08,080 --> 00:23:14,320

crap load a crap load of energy inherent in cooking oil when you heat it up and then add

372

00:23:14,320 --> 00:23:20,400

water to it but that energy does mean their tiny teaspoon scale is a good enough yardstick to

373

00:23:20,400 --> 00:23:28,880

test the pot shapes first up the walk will its oval shape help focus the flame this is one teaspoon

374

00:23:28,880 --> 00:23:44,080

of water and eight teaspoons of peanut oil and a walk three two one next a standard pot three two one

375

00:23:51,360 --> 00:23:59,840

nice and finally a stove pipe shaped pot jimmy lights the fire maybe it will

376

00:23:59,840 --> 00:24:04,880

act like a cannon and direct the blast upwards here we go okay go

377

00:24:09,680 --> 00:24:13,680

pretty much the same yeah that wasn't bigger than the pot was it no

378

00:24:14,240 --> 00:24:16,240

no

379

00:24:16,640 --> 00:24:22,400

darn it with all their pot tests delivering similar results it's bad news for the myth

380

00:24:23,760 --> 00:24:28,720

so far it looks like pot shape doesn't really matter so the idea of eight ounces of water

381

00:24:28,720 --> 00:24:35,760

creating a 30 foot fireball is well busted the only thing left to try from here is adding more

382

00:24:35,760 --> 00:24:41,920

water we'll see what we get so with the pot size out of contention there we go the boys are going

383

00:24:41,920 --> 00:24:48,960

to see if throwing more water on the flaming oil will provoke a more furious flame last time we did

384

00:24:48,960 --> 00:24:55,200

eight to one this time we're going to do four to one and uh we'll ramp it up from there so we'll

385

00:24:55,200 --> 00:25:00,080

twice the ratio of water shoot the flames twice as high i think we're going to get a bigger

386

00:25:00,080 --> 00:25:05,760

poof of the fireball there we go here we go three two one

387

00:25:11,440 --> 00:25:18,880

hard to say if that was bigger it was at least as big but as big is not big enough

388

00:25:18,880 --> 00:25:25,440

they want bigger and better fireballs so the boys up the water volume again two to one

389

00:25:25,440 --> 00:25:28,880

half as much water as oil three two one

390

00:25:31,680 --> 00:25:39,600

it's getting better but there's room for one final test equal parts oil and water here we go and three

391

00:25:39,600 --> 00:25:41,600

two one

392

00:25:46,320 --> 00:25:51,760

clearly there's not much in it but the guys feel that there is some improvement at the higher ratios

393

00:25:52,480 --> 00:25:57,280

i don't know man it's really close but if i had to call the ideal ratio of water and oil i'd say

394

00:25:57,280 --> 00:26:03,600

it's either the uh the two to one or the one to one ratio yeah i'd make the same call that you know

395

00:26:03,600 --> 00:26:09,600

it is kind of like making the decision as to whether you want to be well done or really well done

396

00:26:10,800 --> 00:26:16,240

i wouldn't want to be in either of them but will that marginal difference make a difference in full

397

00:26:16,400 --> 00:26:25,520

scale will they finally fire up the mythical 30-foot fireball up next awesome carry grant and tory

398

00:26:25,520 --> 00:26:28,240

lock and load for the cheese ball story

399

00:26:32,880 --> 00:26:36,720

don't try anything you've seen on the show at home we are what you're called experts

400

00:26:46,800 --> 00:26:53,440

okay you guys we can't do a show about kitchen nightmares without doing this next myth because

401

00:26:53,440 --> 00:26:59,520

it's got mythbusters written all over it tell me more senior okay it's 1840 there's a naval battle

402

00:26:59,520 --> 00:27:06,720

between uruguay and brazil captain co has run out of cannonballs and he comes upon the idea of using

403

00:27:06,720 --> 00:27:12,560

cheese obviously so the captain orders all of his cannons to be loaded up with the cheese and fires

404

00:27:12,880 --> 00:27:17,360

at the enemy's sails well apparently it was effective otherwise we wouldn't be talking about it today

405

00:27:17,360 --> 00:27:20,320

exactly this is gonna be weird firing the cheese out of a cannon

406

00:27:25,120 --> 00:27:29,440

running out of cannonballs was the nightmare scenario for battles at sea

407

00:27:31,440 --> 00:27:33,840

unless you had an inspirational skipper

408

00:27:34,000 --> 00:27:35,120

okay

409

00:27:38,800 --> 00:27:45,760

and that's what this myth is all about with all the regular ammo used up captain co allegedly

410

00:27:45,760 --> 00:27:52,080

locked and loaded with dutch eat them but could a round of this cheese really cut the mustard

411

00:27:52,080 --> 00:27:57,760

and shred the enemy's sails or is this a myth that stinks well we've already got a perfectly

412

00:27:57,760 --> 00:28:01,840

good cannon the one you built for prison break now we needed some hard cheeses and a period

413

00:28:01,840 --> 00:28:05,680

appropriate sale well since none of us have ever used cheese ammunition how will we talk to a

414

00:28:05,680 --> 00:28:10,720

cheese expert and find out exactly what we're dealing with here all right i mean i've never used

415

00:28:10,720 --> 00:28:20,720

cheese ammunition you yeah once i don't like to talk about it okay but one thing tori can talk about

416

00:28:20,720 --> 00:28:28,000

is how he's sourcing their cheesy myth testing equipment now on mythbusters we have a long history

417

00:28:28,000 --> 00:28:31,760

of testing sea myths and we always do our homework so i'm pretty sure we have everything

418

00:28:31,760 --> 00:28:37,120

either designed or already built to test this myth now the first thing we need obviously is a cannon

419

00:28:37,120 --> 00:28:43,600

which i built for prison break out and we've spent enough time cutting up canvases in the

420

00:28:43,600 --> 00:28:48,880

pirate special to know a thing or two about sales whoa that was crazy in fact we're going back to

421

00:28:48,880 --> 00:28:55,920

the same sailmaker to get a period accurate sailing meanwhile carry and grand are checking a cheese's

422

00:28:55,920 --> 00:29:02,800

chance of becoming cannon fodder with a state of the art food texture analyzer so we need to see

423

00:29:02,800 --> 00:29:08,000

how projectile worthy these cheeses are well what we'll do is we'll set up a penetration test

424

00:29:08,000 --> 00:29:12,800

where we'll deflect into the cheese and we'll measure how stiff it is how hard it is and how

425

00:29:12,800 --> 00:29:19,120

elastic it is first up the cheese of the myth etem took about two and a half kilos of force to go in

426

00:29:19,120 --> 00:29:25,120

half an inch okay two and a half kilos of force ain't a whole lot so it's just as well the team

427

00:29:25,120 --> 00:29:31,920

brought two other much firmer fromages why don't we now test the smoke gutter food texture expert

428

00:29:31,920 --> 00:29:37,840

mark thinks that etem in the 1840s might have been more like the smoke gutter of today but there's

429

00:29:37,840 --> 00:29:44,160

yin and yang although it's almost twice as hard as etem it has a bad side effect for a cannonball

430

00:29:44,160 --> 00:29:52,400

it crumbles that's interesting so maybe the spanish garacha has a better future it did not fracture

431

00:29:52,400 --> 00:29:56,880

it retained its shape and it fought to recover some energy so that elasticity will be a good thing

432

00:29:56,880 --> 00:30:02,480

so it's a good candidate it's a very good candidate so although etems authentic the other harder

433

00:30:02,480 --> 00:30:11,600

cheeses may be more reliable 1840 replicas with provisioning complete it's time to launch this

434

00:30:11,600 --> 00:30:16,800

myth on the high seas so we've come to west our marine services marina where they're helping us

435

00:30:16,880 --> 00:30:24,000

transform this barge into a ship from 1840 starting with a genuine replica 19th century sail

436

00:30:26,400 --> 00:30:32,960

it's period perfect set up perfect target that looks so good awesome the question that's worrying

437

00:30:32,960 --> 00:30:37,280

us right now the most is inside the cannon is basically an explosion you light the fuse that

438

00:30:37,280 --> 00:30:41,680

ignites the black powder that turns into this massive ball of hot expanding gases will the

439

00:30:41,680 --> 00:30:47,120

cheese break up into a million pieces or even melt as it exits the cannon getting out intact

440

00:30:47,120 --> 00:30:52,160

will be a stiff ask for any cheese etem is what they talked about in the myth that's what we have

441

00:30:52,160 --> 00:30:58,000

here this is a smoked gouda which is actually more like the the aged etem back in those days

442

00:30:58,000 --> 00:31:03,760

and if you throw in the garacha the cheese voted most likely to be a good cannonball that's all

443

00:31:03,920 --> 00:31:09,840

three pre-tested cheeses ready for loading stop eating the ammunition i'm on a pregnant

444

00:31:11,920 --> 00:31:19,360

with their ammo shaved and shaped oh yeah it's launch time i christen you the conchista door

445

00:31:20,960 --> 00:31:29,040

to me put a hole in this sail so will cheese cut it as a cannonball or will the sail just be a

446

00:31:29,120 --> 00:31:37,680

splatter with a platter i think we're close and coming up can adam and jayme finally fire up with

447

00:31:37,680 --> 00:31:50,800

a 30 foot fireball can eight ounces of water on a grease fire throw up a 30 foot fireball

448

00:31:51,520 --> 00:31:58,880

the myth says yes but so far adam and jayme have only managed 20 feet no 30 feet i think we got a

449

00:31:58,880 --> 00:32:06,320

little more work to do so they ditched the eight ounce ideal wow and are now seeing if any amount

450

00:32:06,320 --> 00:32:13,360

of water can launch a super-sized 30 foot fireball in tooling up for their outdoor testing jayme's

451

00:32:13,360 --> 00:32:18,640

found the mother of all burners it's time for the boys to pack up everything and

452

00:32:22,080 --> 00:32:28,240

and head out to a dusty wasteland if this isn't the middle of nowhere you can probably see it from

453

00:32:28,240 --> 00:32:33,520

here so we've come back to commune with the windmills and waste management's altamont landfill

454

00:32:33,520 --> 00:32:39,840

and while you may see a desolate landscape surrounded by alternative energy i see a kitchen

455

00:32:39,840 --> 00:32:46,160

about to incur its own worst-case scenario with the full-scale arsonist dream kitchen in place

456

00:32:47,200 --> 00:32:53,440

what could be wrong with my cooking they're almost ready to fire up the big one okay and tip

457

00:32:53,840 --> 00:33:01,280

haha that's perfect the only thing left to do is to erect a 30 foot yardstick and they can launch

458

00:33:01,280 --> 00:33:08,400

their test that looks pretty straight to me at last it's time to see if water plus a grease fire

459

00:33:08,400 --> 00:33:15,120

can ever equal a 30 foot high fireball with the small-scale results in mind they've got a regular

460

00:33:15,120 --> 00:33:21,520

stock pot at a two to one ratio of ingredients two quarts of oil to one quart of water there's a pretty

461

00:33:21,520 --> 00:33:27,680

stiff wind out here so i'm reckoning that uh we're not going to get 30 feet straight up but we might

462

00:33:27,680 --> 00:33:34,960

get 30 feet sideways and that's what the myth says 30 feet didn't say straight up ah that's our jayme

463

00:33:34,960 --> 00:33:42,560

always want to move the goalposts i want a 30 foot fireball a genuine bonafide died in the wool

464

00:33:42,560 --> 00:33:50,400

homegrown 30 foot fireball this is it the final countdown for the ultimate disaster test will

465

00:33:50,400 --> 00:33:56,640

the worst-case scenario for a kitchen fireball meet adam's high hopes yeah yeah go for it

466

00:34:06,640 --> 00:34:14,800

that was 30 feet that was 30 feet nicely done it looked good from here with two quarts oil and one

467

00:34:14,880 --> 00:34:20,480

quart water that's four times the original amount they used have they finally cracked it

468

00:34:21,200 --> 00:34:31,920

there it goes yep yeah 28 29 30 easily 30 that's a lot of fire out of a little pot of oil at last

469

00:34:31,920 --> 00:34:39,600

it's mission accomplished eight ounces of water can't give you a 30 foot fireball but a quart sure can

470

00:34:39,600 --> 00:34:44,560

two parts oil one part water we got the fireball we were looking for i could see it well above

471

00:34:44,960 --> 00:34:52,240

the 30 foot marker it's there i will now regard making french fries with the same fear i have for

472

00:34:52,240 --> 00:34:59,920

using a table saw but as far as the 30 foot fireball from eight ounces of water dumped in oil it's no

473

00:34:59,920 --> 00:35:09,600

go it's busted busted it may be but jayme's not done yet he's had a bizarre idea on how to escalate

474

00:35:09,600 --> 00:35:17,040

this kitchen catastrophe to the max this is what i came up with a can of soup stock what if that

475

00:35:17,040 --> 00:35:22,640

was sitting on a shelf above your stove and happened to fall into that pot of burning oil when you

476

00:35:22,640 --> 00:35:32,240

turn up the heat on a sealed can the results are dynamite so it may be just the thing to take this

477

00:35:32,240 --> 00:35:38,640

fireball to a whole new level because when jayme's can of liquid falls into 800 degree oil

478

00:35:38,720 --> 00:35:43,360

as sure as shooting it's going to explode now we've already seen what happens when you pour

479

00:35:43,360 --> 00:35:49,360

water into the oil imagine what's going to happen when it enters the oil from pretty much underneath

480

00:35:49,360 --> 00:35:57,280

all in like a tenth of a second it's going to be spectacular and incredibly volatile just how they

481

00:35:57,280 --> 00:36:07,440

like it i think we're close okay we're going to drop it in let me take cover it's the moment of

482

00:36:07,440 --> 00:36:19,280

truth that's gonna happen quick i think pressure is building yeah

483

00:36:25,920 --> 00:36:32,480

that's what i'm talking about that was nice ah the sweet deep fried smell of success

484

00:36:33,120 --> 00:36:39,040

their mini meat depth charge has shot up over 100 feet of fireball left a beautiful

485

00:36:39,040 --> 00:36:46,800

myth buster's trademark and created the ultimate kitchen nightmare coming up next on myth busters

486

00:36:46,800 --> 00:36:54,160

get ready for the ultimate food fight then that's a bad grease fire right there it's extreme

487

00:36:54,160 --> 00:36:57,760

firefighting for the extreme kitchen grease fire finale

488

00:37:04,960 --> 00:37:10,800

tori kary and grant are testing the claim that a south american sea battle was won by cannons

489

00:37:10,800 --> 00:37:16,480

blazing away with cheese balls for this myth to be confirmed we need to see that cheese exit the

490

00:37:16,480 --> 00:37:22,240

cannon completely intact hit the target and make a perfect hole in our period accurate sale okay

ready

491

00:37:23,040 --> 00:37:30,000

now when the black powder ignites the cheese could have up to 5000 psi propelling it what will happen

492

00:37:30,000 --> 00:37:38,640

to it then is anyone's guess first cheese up is the item of the myth okay do what you gotta do right

493

00:37:38,640 --> 00:37:45,120

all right we're out of here i think this is gonna work uh i have no idea the loaded cheese should

494

00:37:45,200 --> 00:37:54,000

have a realistic exit velocity if it makes it out of the barrel in three two one

495

00:38:05,120 --> 00:38:14,720

it just bounced right off the sale yeah no damage smudged yes hold no the item shot out like a rocket

496

00:38:15,120 --> 00:38:20,640

as the lightest cheese of the trio it simply doesn't have enough mass to penetrate the sale

497

00:38:21,280 --> 00:38:28,240

so what's next guess we'll just have to see how go to does the earlier tests rated go to as the

498

00:38:28,240 --> 00:38:36,640

hardest but it crumbled under load nice fit right great fit so how would it fare as cannon fodder

499

00:38:36,960 --> 00:38:39,040

find out how much damage this cheese can do

500

00:38:47,920 --> 00:38:53,360

the sales unsullied and the cannon has blown chunks of charred cheese all over the deck

501

00:38:53,920 --> 00:38:58,400

which means all that energy dispersed what we need is that solid massive cheese

502

00:38:58,400 --> 00:39:02,240

to fly out with all that energy in order to do some kind of damage to the ship

503

00:39:02,240 --> 00:39:07,840

i don't know it's starting to look not so good for this move it sure ain't their hardest cheese

504

00:39:07,840 --> 00:39:13,840

just shredded itself but maybe hardness isn't everything they have another cheese in their

505

00:39:13,840 --> 00:39:20,960

locker garacha harder and heavier than edam but more elastic than gutta lighting the fuse in three

506

00:39:21,520 --> 00:39:28,800

two one this time they're locked and loaded with the most flexible cheese rammed up tight

507

00:39:28,800 --> 00:39:31,040

will it finally be curtains for the sale

508

00:39:46,160 --> 00:39:53,440

at last they've nailed it that garacha had the right texture to take the full explosive force

509

00:39:53,440 --> 00:39:59,520

of the black powder and it's sliced through the canvas like a knife through cheese i cannot

510

00:39:59,520 --> 00:40:06,560

believe the size of that hole that would cause me to retreat so yes the edam failed yes the gutta

511

00:40:06,560 --> 00:40:12,320

failed but finally we found a cheese that was hard enough to stay intact and make it through the sale

512

00:40:13,200 --> 00:40:18,400

it's lethal people i am good with calling cheese a viable weapon during the heat of battle i'm calling

513

00:40:18,400 --> 00:40:22,000

this one confirmed confirmed confirmed and delicious

514

00:40:32,000 --> 00:40:40,160

when you're all lit up use an extinguisher control ellen i'll take two and never fight a grease fire

515

00:40:41,040 --> 00:40:42,160

water

516

00:40:44,560 --> 00:40:52,560

but is it really never can you ever use water to put out a grease fire is there any amount of water

517

00:40:52,560 --> 00:40:57,760

that can successfully extinguish a catastrophic grease fire in your kitchen i have a way to

518

00:40:57,760 --> 00:41:03,040

answer this jayme doesn't know what it is yet and i think you're gonna like it to see if adam's plan

519

00:41:03,040 --> 00:41:07,520

holds water they first need to refurbish their severely singed kitchen

520

00:41:10,640 --> 00:41:16,000

it may look pretty but every item added is more fuel for a cataclysmic kitchen fire

521

00:41:18,080 --> 00:41:22,720

and will make any inferno doubly difficult to douse all right i'm going to increase the

522

00:41:22,720 --> 00:41:31,360

conflagration here you ready yeah granny's on fire too granny's on fire all the cereals uh oh man

523

00:41:31,920 --> 00:41:37,680

it'll take a niagra of water to quench this place that's a that's a bad grease fire right there

524

00:41:37,680 --> 00:41:40,640

i'd say so i think my water method is coming hold on

525

00:41:43,280 --> 00:41:43,680

hear that

526

00:41:46,320 --> 00:41:47,760

you did i did

527

00:41:56,480 --> 00:42:02,640

usually on tap for fighting forest fires there's at least 500 gallons swinging under that chopper

528

00:42:03,600 --> 00:42:13,600

so it looks like our house proud had some friends in the fire department she did

529

00:42:19,760 --> 00:42:27,760

no fire fire gone cheating maybe effective

530

00:42:28,720 --> 00:42:37,200

you bet that is just the way i was hoping it would look dude this is nasty yeah there's

531

00:42:37,840 --> 00:42:43,600

cereal all over the floor it ain't pretty but one thing's for sure the fire has been

532

00:42:43,600 --> 00:42:49,040

quintessentially quenched and your helicopter guy you hit the mark he hit the bullseye pj's the

533

00:42:49,040 --> 00:42:54,400

best man for those who wondered if it is ever possible to put out a grease fire with water

534

00:42:54,480 --> 00:43:02,960

the once proud myth buster's extreme kitchen is smoldering proof that you can this is possible

535

00:43:02,960 --> 00:43:09,040

but you need 500 gallons of water and you can't have a roof well i think our work's done here i am

536

00:43:09,040 --> 00:43:19,280

deeply deeply satisfied let's go home you know we shoot hours and hours of footage for every

537

00:43:19,280 --> 00:43:24,720

episode of myth busters and we just can't fit all of it into the show so if you want to see more

538

00:43:24,720 --> 00:43:28,960

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