

Does Your Metal-Containing Mixture Fall Under NFPA 484 or NFPA 654?

If the answer is **No** to **ALL** of the questions below, you are exempted from **NFPA 484**.
Please follow **NFPA 654**.

1 Will your material still burn after being treated with Class A,B,C fire extinguishing agents? Yes ☐
No ☐

2 Will your material still burn after being treated with water? Yes ☐
No ☐

Test Method: UN DOT 4.1 - Flammable Solid

3 Is the material a UN Class 4.3 solid as tested using UN 4.3 water reactivity methods? Yes ☐
No ☐

Test Method: Dangerous When Wet

4 Has it been demonstrated that the volume resistivity is less than 1 Mega Ohm-Meter? Yes ☐
No ☐

Test Method: ASTM D257

5 Is your material a thermite? Yes ☐
No ☐

Know Your Fire Extinguisher

Extinguisher Type → Type of Fire ↓	Water	Foam	CO ₂	Dry Chemical
A Paper, Wood & Plastic	✓	✓	X	✓
B Flammable & Combustible Liquids	X	✓	✓	✓
C Electrical Equipment	X	X	✓	✓

If the answer is **YES** to **ANY** of the questions above, follow **NFPA 484**. Tests to be completed:

Explosibility Severity Test (K_{st} and P_{max})
(Used for explosion protection)

Limiting Oxygen Concentration (LOC)
(Used for explosion protection)

Minimum Explosible Concentration (MEC)
(Used for explosion avoidance)

Minimum Ignition Energy (MIE)
(Used for ignition avoidance)

If the answer is **No** to **ALL** of the questions above, follow **NFPA 654**. Tests to be considered:

Explosibility Severity Test (K_{st} and P_{max})
(Used for explosion protection)

Minimum Explosible Concentration (MEC)
(Used for explosion avoidance)

Minimum Ignition Energy (MIE)
(Used for ignition avoidance)