



MACHINERY AND PYROTECHNICAL PRODUCTS SINCE 1946



RAI-PP
THERMITE CHARGE



RAI-PP is intended for destroying equipment (i.e. vehicles, weapons systems, shelters, munitions and electronics), explosive ordnance disposal (EOD) and improvised explosive device disposal (IEDD)

The RAI-PP thermite charge contains no explosive or pyrotechnic materials, making it highly insensitive and not classified under Explosives Class 1. In its transport package, the UN classification of the RAI-PP assembly is 1.4S, allowing easy and cost-effective storage and transportation.

During combustion, RAI-PP generates significant heat and white-hot molten iron, which can efficiently destroy a wide range of materials.

TECHNICAL INFORMATION

CONSTRUCTION

The RAI-PP assembly consists of a thermite charge, igniter, and handle. An electric igniter without a handle is also available.

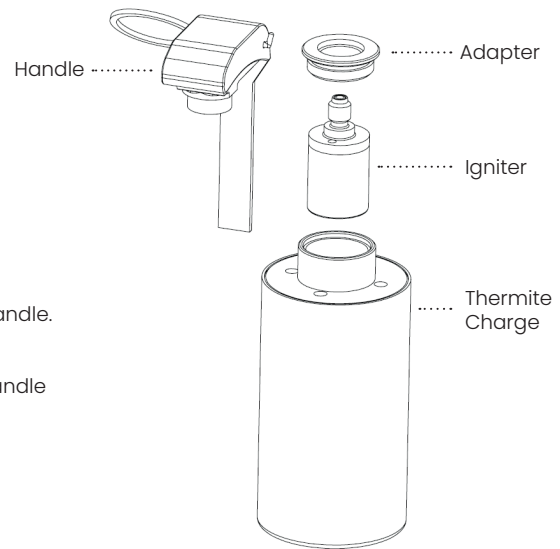
In the transport configuration, the thermite charge, igniter, and handle are separate and require assembly before use.

IGNITION

The thermite charge of the RAI-PP is highly insensitive. To ensure proper ignition, the igniter is specially designed for the RAI-PP charge. The handle of the mechanical igniter is equipped with a safety pin to prevent unintentional ignition.

The electronic igniter is designed for controlled situations where ignition must be performed remotely from a safe distance. For demining or demolition purposes, electronic igniters are the optimal solution and can be used with the same electronic blasting machine as typical electronic detonators (Type-F fuze head).

Raikka can provide shock tube-based igniters for the RAI-PP thermite charge. This technique is essential in situations where electronic systems are not permitted, such as demining in the vicinity of an active power plant.



Dimensions and mass of the assembly

Height	130 mm
Diameter	55 mm excluding handle
	63 mm including handle
Mass	750 g

THERMITE COMPOSITION

Each RAI-PP contains approximately 0.6 kg of solid thermite composition, which is pressed into an aluminum body to ensure steady burning. The burning temperature can reach up to 3000 °C, depending on how the heat dissipates into the surrounding environment and transfers to the target material.

Packaging

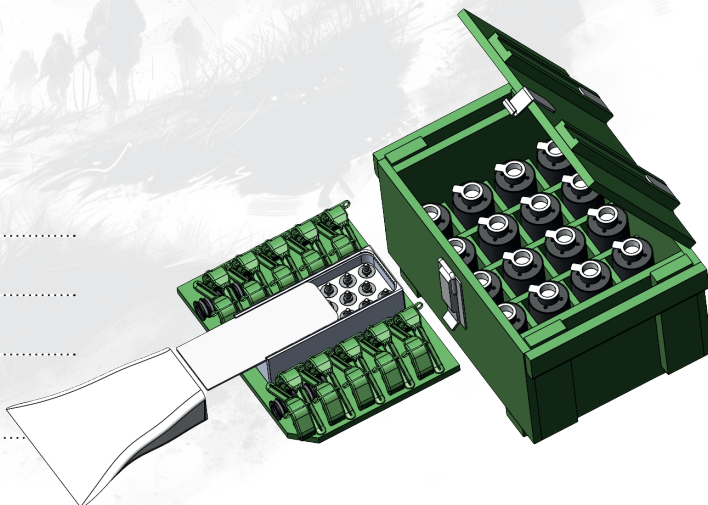
One package includes	20 pcs RAI-PP Thermite charges
	20 pcs RAI-PP Mechanical ignitors
	20 pcs Composite handles
Ignitors are packed in aluminium inner package.	1 x 20 pcs box

Operational use, Storage and Self-life

Suggested operational temperature	- 40 °C ...+ 50 °C
Hazard classification	1.4S
UN Number	UN 0454
NSN Number	1375580009500
Quality	ISO9001, AQAP2110

Outer package; Plywood box

Outer package dimensions	407 x 294 x 242
Inner package of ignitors	Aluminum box
NEQ of the assembly	10 g pyrotechnic composition





Raikka Oy designs and produces explosive and pyrotechnic products with Nordic expertise, tailored to meet customers' requirements.

Our primary customers include governmental organizations, such as the armed forces and homeland security authorities, as well as other European defense industries. Founded in 1946 to support national defense and reconstruction, Raikka Oy has continuously expanded its expertise in explosives.

CERTIFIED
AQAP 2110



CERTIFIED
ISO 9001
ISO 14001



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