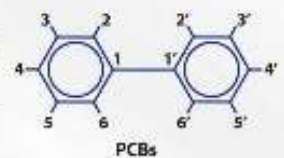
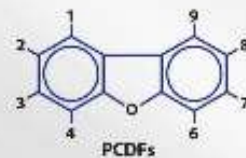


Counter-measure equipment for Dioxins emission

What 'Dioxins' is

'Dioxins' is organochlorine chemical, and the collective term for PCDDs, PCDFs and co-PCBs. Effects on reproductive, thyroid and immune function have been reported in animal studies at high exposure doses.



In secondary aluminium production, there are contaminations in scraps such as deposition of fat and oils, plastic and paints. Black smoke due to incomplete combustion of organic matter, CO, CO₂, hydrocarbon occur during melting process. As a result, dioxins are generated unintentionally.

Dioxins in secondary aluminium industry

How to prevent dioxins emission

1

Decomposition by combustion (and prevent re-synthesis)

2

Collection by adsorbent (activated carbon, etc.)

3

Catalytic decomposition

and more

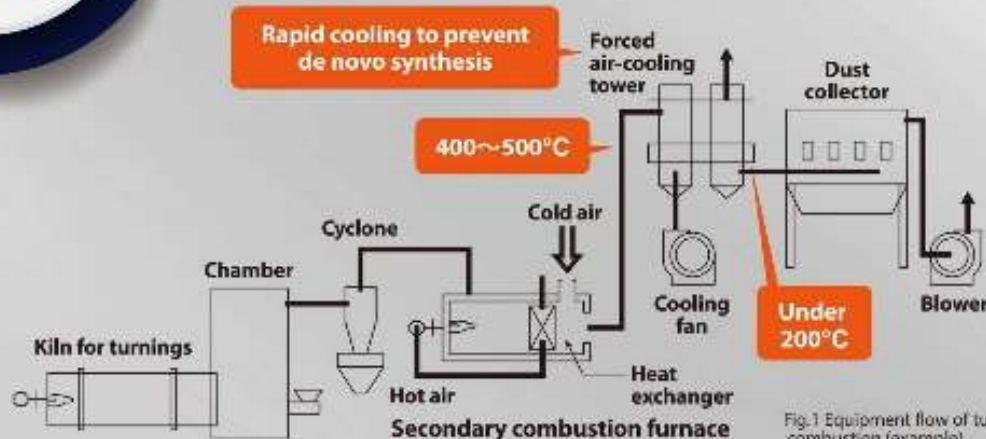


Fig.1 Equipment flow of turnings combustion (example)



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