

BUSINESS CASE THERMAL DISINFECTION

Explanation: Pls fill in blue cells only.

COST COOLANT LUBRICANT

	machines	liter/machine	liter total		
liter coolant lubricant	5	500	2.500		
	€/l undiluted	dilution	€/l diluted	€	625
procurement cost	5 €	95%	0,25 €		
		€/m ³	m ³	€	250
cost disposal coolant lubricant		100 €	2,50	€	250
gives: Cost of coolant lubricant per filling				€	875

for all machines

change of coolant lubricant	without disinfection	months	6	i.e. 2 times per year
every x months	with disinfection	months	9	i.e. 1,3 times per year
costs for coolant	without disinfection	€	1.750	per year
lubricant	with disinfection	€	1.167	per year
Savings coolant fluid		€	583	per year

COST MACHINE DOWN TIME WHEN CHANGING COOLANT

Number of machines		5	machines
Costs down time per machine per hour		€ 100	per hour
Hours down time when changing coolant		8	hours/machine
Cost machine down time	without disinfection	€ 8.000	2 replacement(s) per year
	with disinfection	€ 5.333	1,33 replacement(s) per year
Savings down time		€ 2.667	per year

SAVINGS BIOZIDES

from cell Q26 **€ 2.088 per year**

AMORTISATION

Purchasing cost ph-cleantec	€	3.970	ThermoDes
Annual savings - coolant lubricant	€	583	
Annual savings - machine down time	€	2.667	
Annual savings - biocides	€	2.088	
Minus: Additional energy cost	-€	600	from cell S38
Savings	€	4.738	per year
Amortisation after		10,06	months
			= 0,8 years

FURTHER ADVANTAGES

- Lower maintenance costs of tooling machines
- Longer life span of tooling machines
- No chemistry or biocides
- No health hazard for employees and environment