

PROCESS COST COMPARISON

Plaforization™



Plaforization

Conventional Aqueous Phosphating

COST

Energy

Low – Energy requirements are minimal since there is no heating and fewer and smaller pumps to operate.

High – With several baths heated and several large motors running, the energy required is much greater. Final rinse requires additional energy to dry parts before painting.

Water

None – The process does not use any water.

High – Water is the main ingredient and a large amount of fresh water is used in the rinsing stages.

Waste

None – There is no waste water, no sludge is created. No disposal costs.

High – Periodic replacement of chemicals plus purification of rinsing water plus periodic de-sludging of phosphating tank.

Analytical

Very low – No analysis must be carried out on site. Just send us a sample every quarter.

High – All stages of the process require daily accurate analytical controls.

Dead time

None – There is no waiting time before starting operations.

High – Must wait for baths to heat before starting operations.

Capital

Low – Our application equipment is less than half the cost and size of any competitor.

High – Several tanks, plus several pumps, exhaust fan, computerised analysis, water treatment equipment, de-sludging equipment and oil skimmers.

Space

Low – With only one stage, plants are compact and simple to install.

High – With at least 3 stages, space required is significantly greater

Operating

Known – Costs can be calculated down to the penny. The cost per m2 is fixed; it does not matter how many m2 you treat per day.

Uncertain – There are many hidden variables that make it difficult to calculate the actual running cost of the process.

Chemicals

High – Initially chemicals costs are higher, but you never need to change the bath.

Low – Chemical costs are significantly lower but regular replacement of phosphating baths is required.

Long House, Westham Lane, Barford, Warwick CV35 8DP
Tel: 01926 624326 Fax: 01926 620019
Email: info@envirometaltech.co.uk

www.envirometaltech.co.uk



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