NEXUS[™] cost-of-use analysis for : LAUNDRY DETERGENT

WATER USED TO DISPENSE PRODUCT:

U S CHEMICAL 2 x 3100 mL 0 gal. used Competitor 36 lb. case 17.1 gal. used per lb.*

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WATER USED PER CASE TO DISPENSE PRODUCT:

U S CHEMICAL(A) = 0 gal. per case Competitor (B) = 36 lb. x 17.1 = 615.6 gal.

B NEXUS VS. EXCESS GALLONS OF WATER TO DISPENSE SOLID:

(A) - (B) = Excess0 - 615.6 = 615.6

COST TO HEAT WATER USED IN DISPENSING PRODUCT TO WASH TANK:

	8.33	Pounds = Weight of 1 gal. of water
Times	75	Degree rise (60 incoming raised to 135)
Equals	624.75	BTU's required per gallon
Divided	3413	BTU conversion factor to kWh
Equals	0.183050103	kWh
Times	0.21	National average cost per kWh**
Equals	\$ 0.0384	Cost per gallon for 60 degree rise
Times	615.6	Excess gallons consumed
Equals	\$ 23.66	(C) Excess cost for heating transport water

5 COST TO HEAT DISPENSE WATER IN WASH TANK:

	8.33
Times	25
Equals	208.25
Divided	3413
Equals	0.061016701
Times	0.21
Equals	\$ 0.0128
Times	615.6
Equals	\$ 7.89

Pounds = Weight of 1 gal. of water Degree rise (135 incoming raised to 160) BTU's required per gallon BTU conversion factor to kWh kWh National average cost per kWh Cost per gallon for 25 degree rise Excess gallons consumed (**D**) Excess cost for heating transport water in wash tank

6 COST OF WATER USED TO TRANSPORT DETERGENT:

National average cost for water per 1000 CF (cubic feet) is: \$ 15.00 National average cost for sewage per 1000 CF (cubic feet) is: \$1.50 Conversion factor for CF to gallons is 0.13368

615.6 x 0.13368 = 82.293408

82.293408 / 1000 x 3 = cost of transport water

(E) \$0.25 = cost of transport water

TOTAL ADDITIONAL COST TO DISPENSE A CASE OF SOLID DETERGENT:
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Electric	+	Wash tank electric	+	Water cost	
(C)		(D)		(E)	
\$ 23.66	+	\$ 7.89	+	\$ 0.25	:

Total additional cost \$ 31.80

🛈 U S Chemical

* All examples shown are based upon actual laboratory conditions of constant water pressure and constant water temperatures.

** Actual electric, water and sewage rates vary. Use of the actual rate for each utility in your area to provide an accurate picture

of the conditions in a case. Actual costs could be significantly higher...and the savings could be much greater.