

Prepared for: Melting Furnace: AL-4000

Actual Customer

MELTING COSTS	UNITS	REVERB	JET MELTER
Melt Loss	percent	3.0%	1.0%
Aluminum Cost	\$ per pound	\$1.20	\$1.20
Energy cost	\$ per therm	\$0.50	\$0.50
Energy usage	Btu's per pound melted	2,000	1,000
Aluminum Usage	Pounds Melted per Month*	1,833,333	1,833,333
COST TO MELT PER	POUND	\$0.046	\$0.017
	ENERGY COST PER MONTH:	\$18,333	\$9,167

MELT LOSS COST PER MONTH \$66,000 \$22,000 \$84,333 \$31,167 TOTAL MELT COST PER MONTH:

MONTHLY MELT SAVINGS

\$53,167

HOLDING COSTS	UNITS	REVERB	JET MELTER
Energy Cost	\$ per therm	\$0.50	\$0.50
Energy Usage	Btu's per pound held (assumed)	60	60
Amount Held	Pounds Held	28,000	10000
Holding Period **	Hours held monthly	192	192
COST TO HOLD PER MONTH		\$1,612.80	\$576.00

MONTHLY HOLDING SAVINGS

\$1,036.80

<u>TOTAL MONTHLY SAVINGS</u>

<u>\$54,203.46</u>

*Aluminum Melt Rate Assumptions:4000#/hr, 22hrs/day, 250 days/year

**Aluminum Holding Assumptions: (4) 48 hr/weekends.

Melting Costs @ 1250 Degrees F

Holding Costs @ 1350 Degrees F