

ABF vs PTF

1. FILTRATION EFFICIENCY

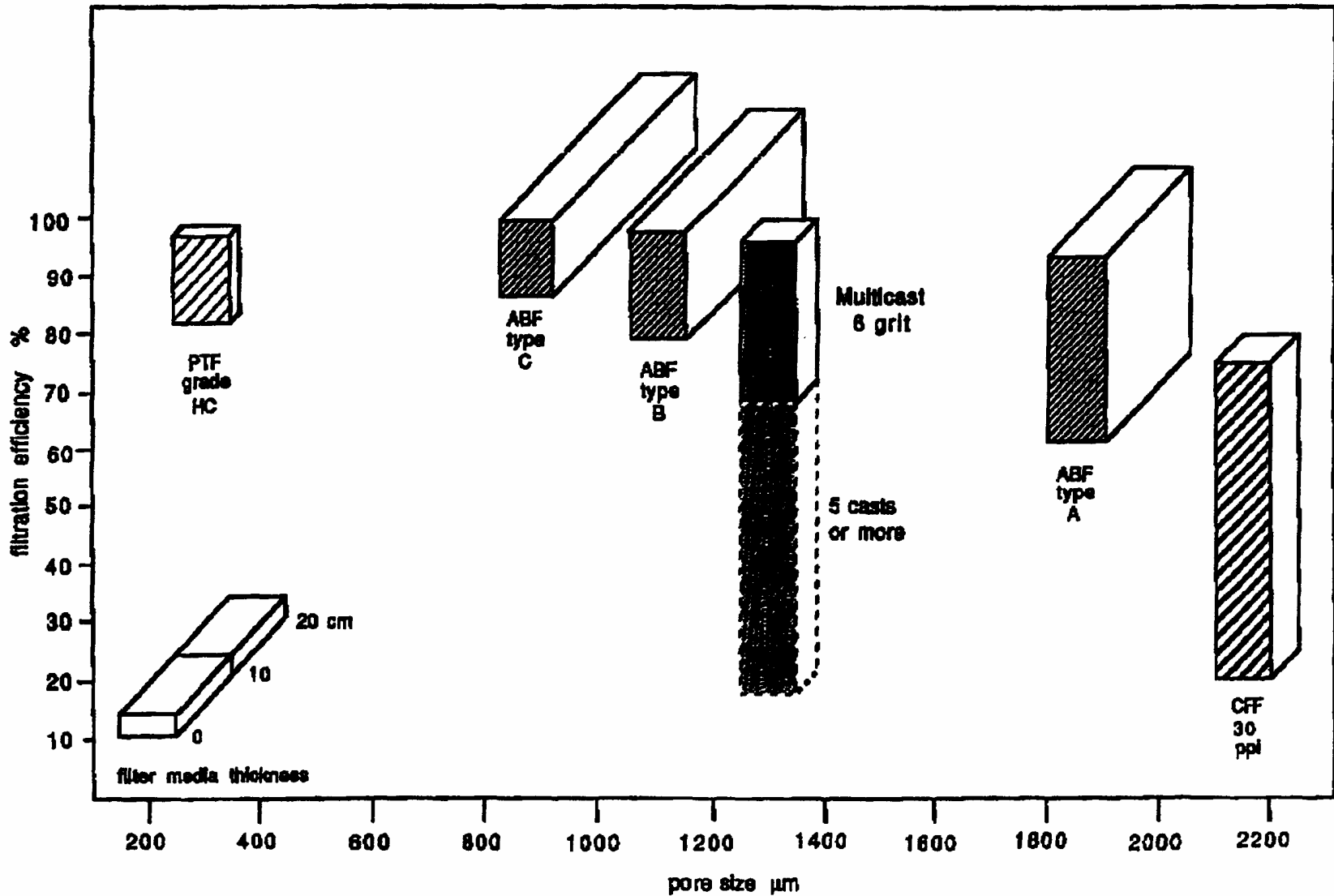
2. RESULTS

- **PoDFA**
- **LIMCA II**
- **R.S.**
- **MEDIA CONTAMINATION**
- **OPERATING COSTS**

3. CONCLUSION

4. RECOMMENDATION

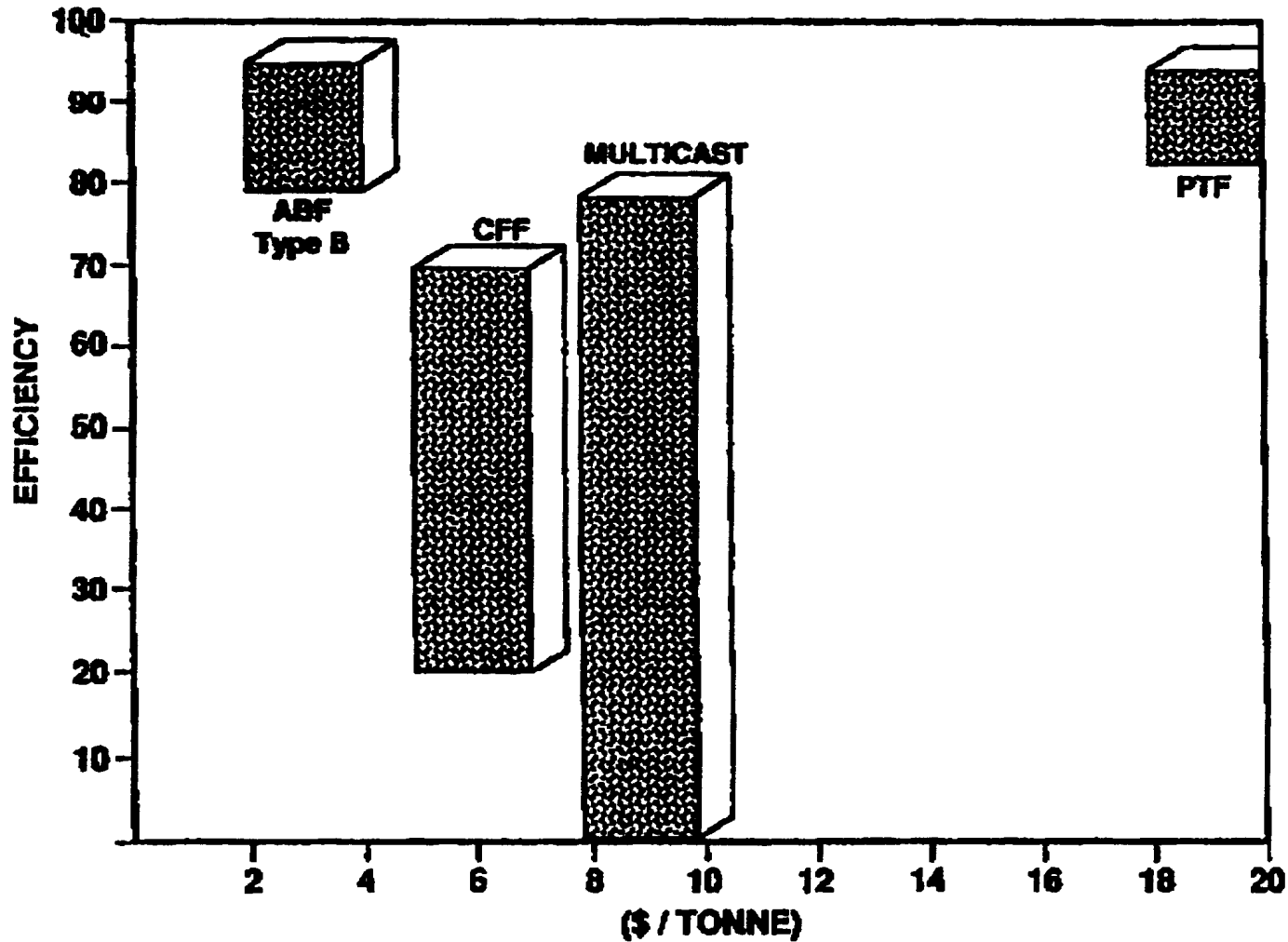
Filtration efficiency vs pore size showing relative filter medium thickness for various filtration processes



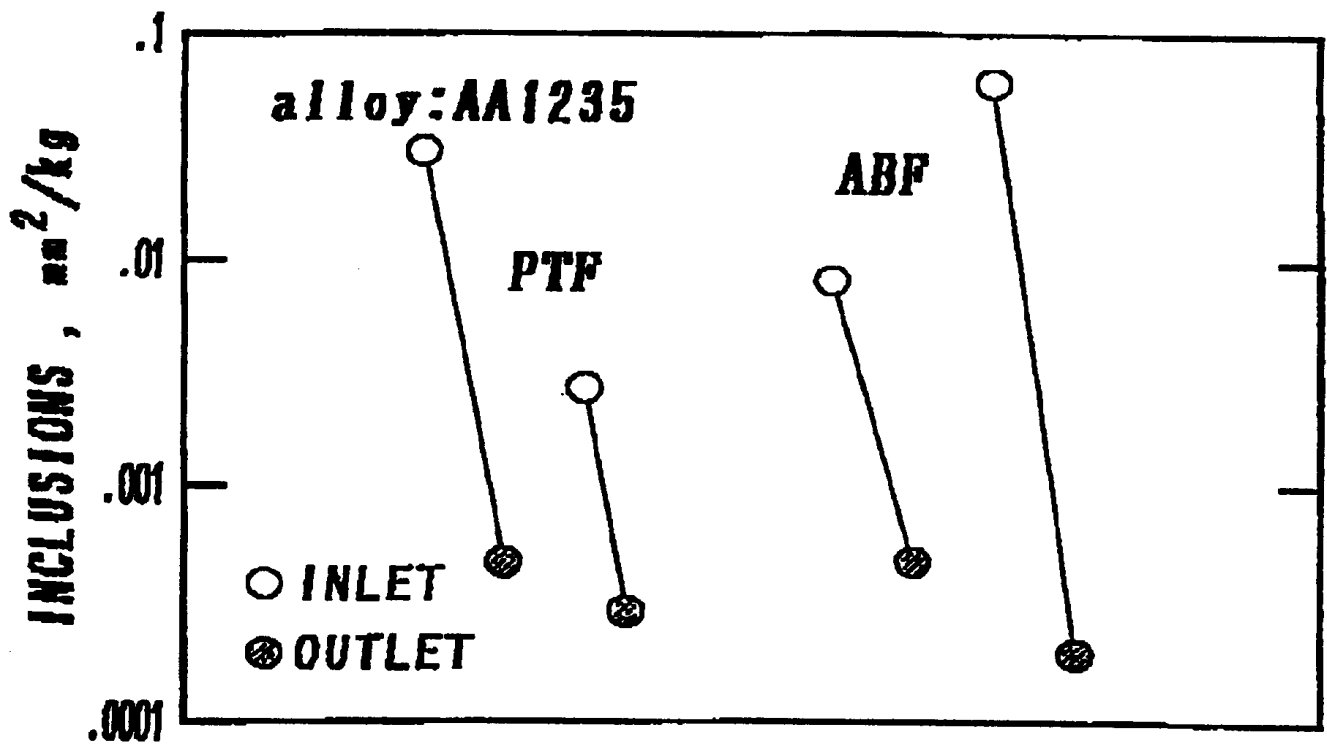
Molten Metal Filtration Technologies

	EFFICIENCIES	LIFE	HOLD-UP
CFF	Low/inconsistent	Low	Low
PTF	Very high	Low	High
MULTICAST	Low/inconsistent	?	High
528	Intermediate	Intermediate	High
ABF	High	High	High

Cost of Operations of various Filtration Systems

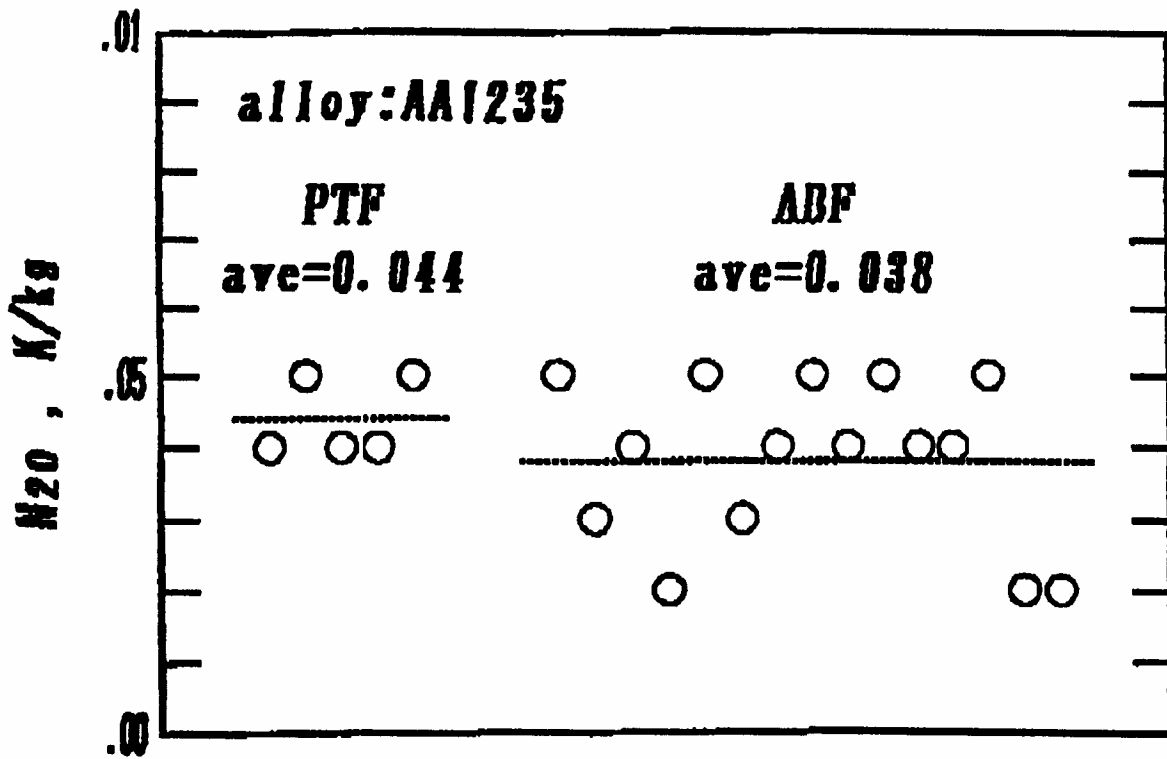


PoDFA Evaluation



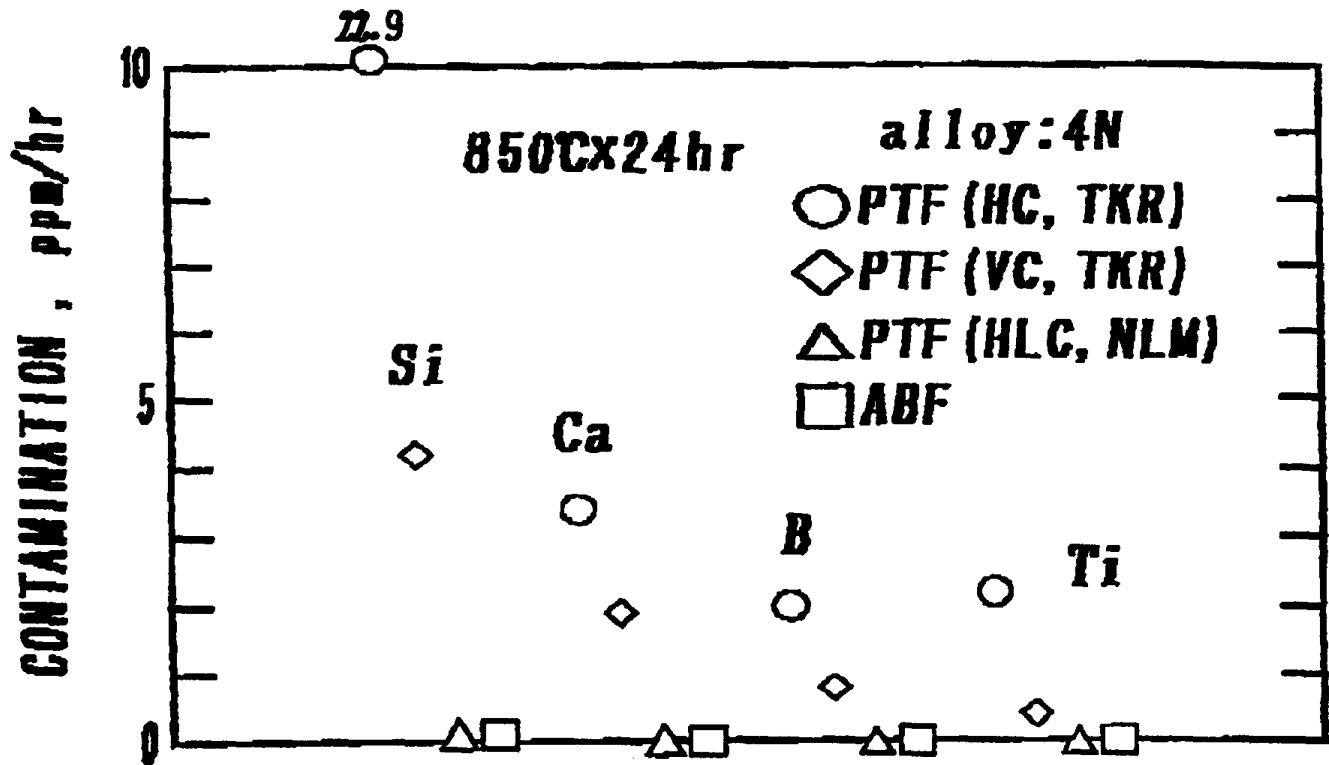
PoDFA RESULTS ARE VERY GOOD AND SHOW NO DIFFERENCE BETWEEN ABF AND PTF.

LIMCA II Evaluation



NO DIFFERENCE IS NOTED BETWEEN PTF AND ABF BY EXAMINING LIMCA II RESULTS

Filter Media Contamination



CONTAMINATION OF THE FILTER BED IS NEGLIGEABLE COMPARED TO MOST OF PTF CARTRIDGES.

Operating Costs

	PRODUCT	LIFE	COST FACTOR
PTF	LITHO.	750 T	4.9 X
ABF	LITHO.	1700 T	1 X
ABF	FOIL	900 T	1.9 X

CONCLUSION

THERE IS NO DIFFERENCE IN FILTRATION EFFICIENCY BETWEEN THE ABF AND THE PTF; BOTH FILTERS SHOW VERY GOOD PERFORMANCE.

THE ABF HAS AN ECONOMIC ADVANTAGE SPECIALLY FOR LONG RUNS.

RECOMMENDATION

THE **ABF** SHOULD BE SERIOUSLY CONSIDERED TO ACHIEVE REDUCED OPERATING COSTS WHEN METAL CLEANLINESS IS CRITICAL.