

# ANALYSIS CERTIFICATION

METHOD OF PREPARATION : GRAVIMETRIC / PRESSURE TRANSFILLING

METHOD OF ANALYSIS : ELECTROCHEMICAL CELL, PARAMAGNETIC OXYGEN CELL,  
GC(FID)

ACCURACY :  $\pm 10\%$  RELATIVE ( $H_2S$ ),  $\pm 2\%$  RELATIVE ( $CO$ ,  $CH_4$ ,  $O_2$ )

MSA P/N	LOT NO. & QTY.	COMP. 1 $H_2S$	COMP. 2 $CO$	COMP. 3 $CH_4$	COMP. 4 $O_2$	COMP. 5 $N_2$	COMP. 6	Exp Date
804770	71748 (9)	10PPM	300PPM	1.45%	15.00%	BALANCE		11/06/03
804770	71922 (78)	10PPM	300PPM	1.45%	15.00%	BALANCE		11/06/03
804770	71923 (155)	10PPM	300PPM	1.45%	15.00%	BALANCE		11/06/03
804770	71925 (155)	10PPM	300PPM	1.45%	15.00%	BALANCE		11/06/03
804770	71782 (35)	10PPM	300PPM	1.45%	15.00%	BALANCE		11/06/03

(Each lot contains 0.1% He)

(GAS MIXTURES MANUFACTURED WITH BALANCE CALIBRATED USING N.I.S.T.  
TRACEABLE WEIGHTS.)

TEST NUMBER: 185052-1, 9493, 9532

No effecting environmental conditions during analysis.

REQUESTED BY : MINE SAFETY APPLIANCE

CUSTOMER PURCHASE ORDER NUMBER : 4500328774

PACKING LIST NUMBER : 165648

CERTIFICATION DATE : November 6, 2002

ANALYSIS BY : Terry Anderson  
Quality Technician

"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

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