

OSHA's APF Final Standard (reference 63 FR 1152; 29 CFR 1910.134; 71 FR 50122, August 24, 2006) went into effect November 22, 2006 (71 FR 50122). The Standard added definitions and requirements for Assigned Protection Factors (APFs) and Maximum Use Concentrations (MUCs). That guidance document presents mandatory selection provisions and their role in the overall Respiratory Protection standard. The provisions can only be used when respirators are properly selected and used in compliance with the final Respiratory Protection standard (29 CFR 1910.134 and 29 CFR 1926.103)

APF means the workplace level of respiratory protection that a respirator or class of respirators is expected to provide to employees when the employer implements a continuing, effective respiratory protection program.

Table I on page 14 of the OSHA "Assigned Protection Factors for the Revised Respiratory Protection Standard", OSHA 3352-02 2009, <https://www.osha.gov/sites/default/files/publications/3352-APF-respirators.pdf>) indicates the Assigned Protection Factors for the Different Types of Respirators. Only that portion of the Table relating specifically to PAPRs is reproduced below.

Table I: Assigned Protection Factors⁵

Type of Respirator ^{1,2}	Quarter Mask	Half Mask	Full Facepiece	Helmet/Hood	Loose-fitting facepiece
Powered Air-Purifying Respirator (PAPR)	-	50	1,000	25/1,000 ⁴	25

⁴The employer must have evidence provided by the respirator manufacturer that testing of these respirators demonstrates performance at a level of protection of 1,000 or greater to receive an APF of 1,000. This level of performance can best be demonstrated by performing a WPF or SWPF study or equivalent testing. Absent such testing, all other PAPRs and SARs with helmets/hoods are to be treated as loose-fitting facepiece respirators, and receive an APF of 25.

MAXAIR Systems PAPR configurations are either the Helmet/Hood (Hood and Shroud) or Loose-fitting facepiece (Cuff) configurations.

MAXAIR CAPR configurations have been tested and the demonstrated performance levels relative to APF as indicated in the table below.

		NIOSH FILTER CLASS: PAPR HE				
		(MAXAIR Cuff and Shroud Configurations ONLY)				
		2180-05	2167-10 XP		2166-10 XP N-OV	
HELMETS (Approved for Filters indicated)	2070-03	2081-03	2070-03	2083-03	2070-03	2083-03
	2075-03	2081-03	2075-03	2083-03	2075-03	2083-03
	2081-03	2083-03	2081-03		2081-03	
	2084-04*					

CUFF:		APF				
2365-02ML, 2365-02SM		25	25		25	
2366-02ML, 2366-02SM		25		25		25
SHROUD:		APF				
2260-05ML, 2260-05SM		25	1,000		1,000	
2261-01ML, 2261-01SM		25	1,000	1,000	1,000	
2264-01ML, 2264-01SM		25		1,000		1,000

NIOSH FILTER CLASS:	HOOD (Integrated Filter) :	APF
PAPR HE	2271PB-07ML, 2271PB-07SM	1,000
PAPR HE	2272PB-07ML, 2272PB-07SM	1,000
PAPR100-N	2271PB-100ML, 2271PB-100SM	25
PAPR100-N	2272PB-100ML, 2272PB-100SM	25
PAPR100-N	2281PH-100	25
PAPR100-N	2281PR-100*	25
PAPR100-N	2281PRS-100*	1,000

NOTES:

For Filters with APF = 25, the Filter Efficiency is 99.97%.
 For Filter with APF = 1,000, the Filter Efficiency is 99.99%.
 * 2084-04 Helmet is only for the Hoods indicated with an "*" .