

Alpair 10P (A) Gen. 1 Extended Full-Range emitter Paper-GRF cone model



This Alpair 10P Gen.1 is a step forward in the development of Markaudio Full-range drivers. The production history of the Alpair 10 series is globally well known inside purist audiophile circles. However, this is the first time that a paper cone version has appeared in the 10 series.

The cone is the most shallow design Markaudio has produced so far this size of driver. To maintain cone stability, the materials used include glass-reinforced fibres. The dispersion characteristic is ultra wide. The 10P is frequency range capable to +25-kHz with an efficiency of 89.5dB. These efficiencies were achieved by considerable design efforts to reduce mass. In fact, the driver's power train under moving mass conditions is less 5.2g, while retaining Markaudio's well known "long throw" design. The coil winding is "high stress" type forming the tight band arrangement on its body. The result is one of the lightest coils of this size deployed weighing under 2.2g.

The power-train suspension compliance is extremely sensitive. Capable of large extension for this class of Full-Range audio driver (7-mm 1 way, limited by the Arrestor).

The Alpair 10P is "purist" technical driver. Its purpose is to serve the audiophile and experimental markets. Due to the highly emittance sensitive power-train, this driver will need users to take note of the need for high quality lower power amplification and audiophile level source. The Alpair 10P should not be considered as a "general purpose" emitter.



T/S Anechoic: 2.2/30g spider final version: 10P Gen.1
 Revc= 6.200 Ohm
 Fo= 42.398 Hz
 Sd= 88.250 cm
 Vas= 29.995 Ltr
 Cms= 2.712m M/N
 Mmd= 4.719 g
 Mms= 5.196 g
 BL= 4.741 TM
 Qms= 2.425
 Qes= 0.382
 Qts= 0.330
 Levc= 50.196u H
 No= 0.579 %
 SPLo= 89.645 dB
 Xmax = 7mm (1 way) limited by Arrestor
 Power = 30 watts Nom.

