

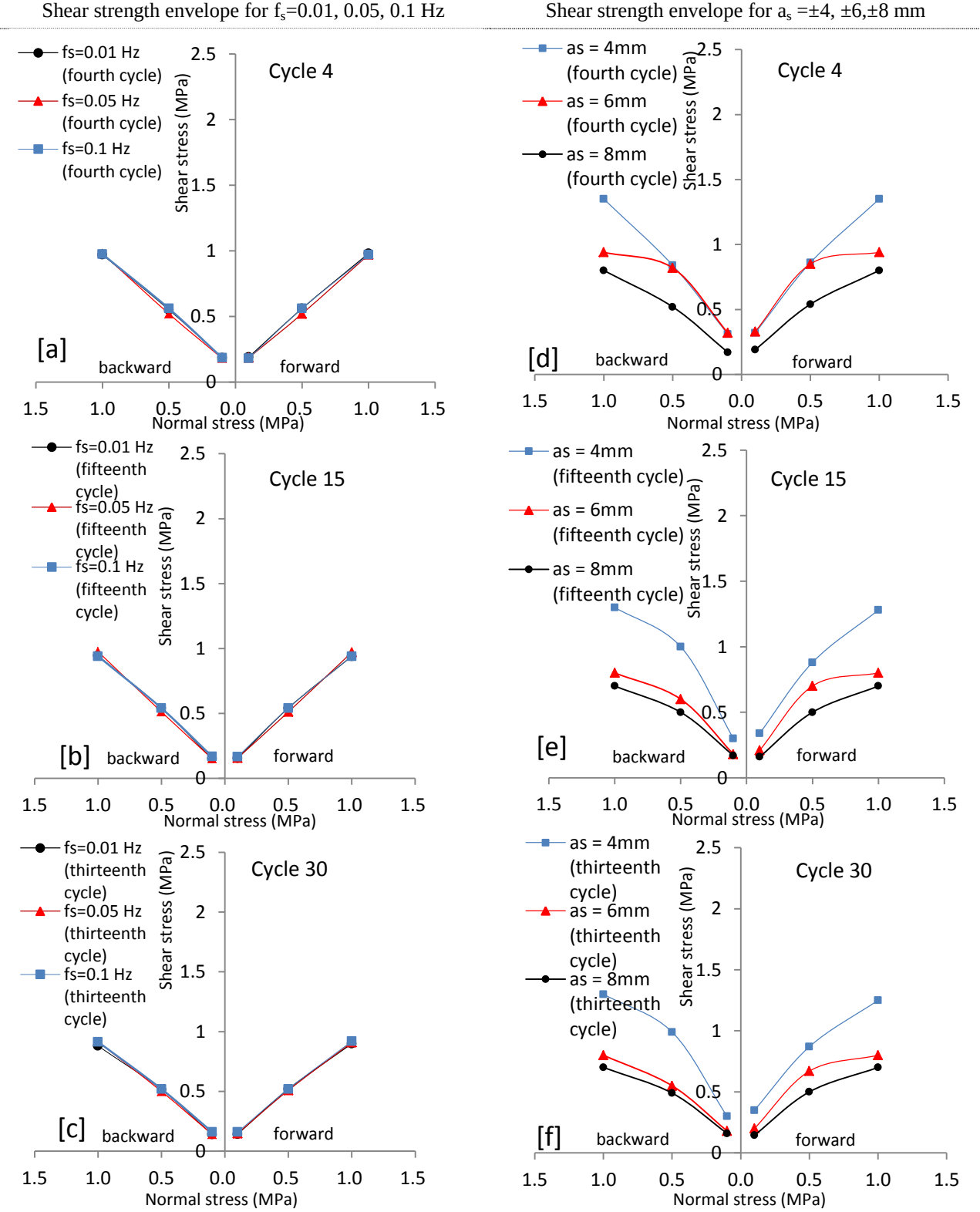


Fig. 16 Shear strength envelope of 30°-30° joint under varying shear load frequencies ($f_s=0.01, 0.05, 0.1$ Hz) and amplitudes of displacement ($a_s = \pm 4, \pm 6, \pm 8$ mm) for different cycles (4, 15, 30) respectively