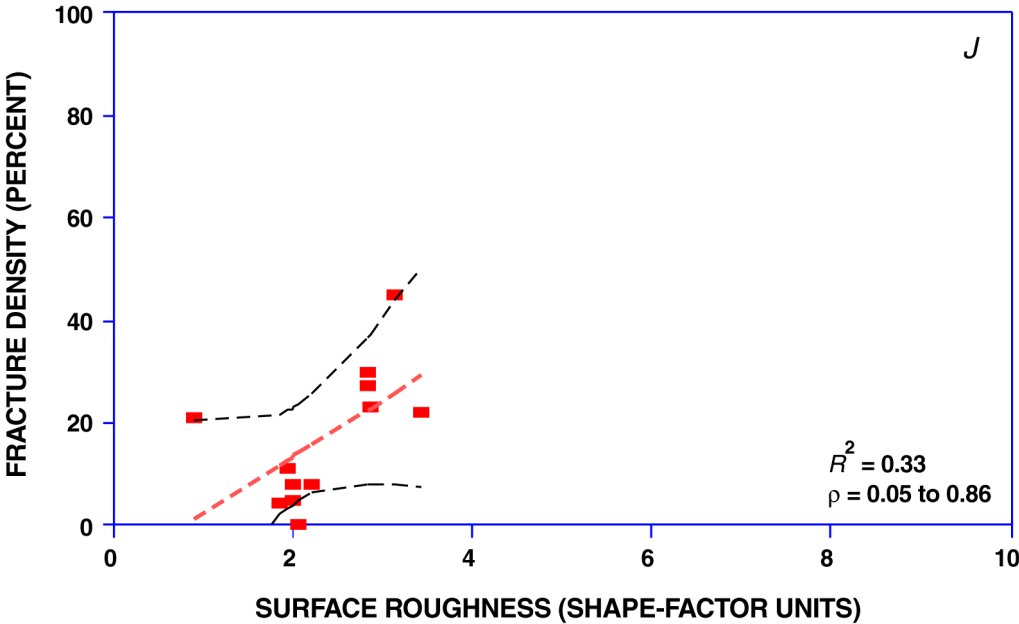
J
FRACTURE DENSITY (PERCENT)
100
80
60
40
20
0
0
2
4
6
8
10
SURFACE ROUGHNESS (SHAPE-FACTOR UNITS)
R^2 = 0.33
ρ = 0.05 to 0.86