*Thermo Scientific:* **mySPIN 12 Microcentrifuge**

Calculating G Force from RPM

RCF or G Force = 1.12 x R x (RPM/1000)2

R: Rotor Radius **mm** (In this case the mySPIN’s radius is 56mm or 5.6cm)

RPM: Revolutions per Minute

RCF: Relative Centrifugal Force

For Example:

The mySPIN’s max RPM is 12,500. What is its max G-Force?

G Force = 1.12 x (56mm) x ((12,500)/1000)2

G Force = 9,800 x G

RPM to G-Force Table Conversion Reference (mySPIN 12)

|  |  |
| --- | --- |
| RPM | G x Force |
| 1000 | 62.72 |
| 3000 | 564.48 |
| 5000 | 1568 |
| 7000 | 3073.28 |
| 9000 | 5080.32 |
| 11000 | 7589.12 |
| 12500 | 9800 |