

CALCULATE SAG MILL POWER

Moly-Cop Tools™ (Version 2.0)



SAG MILL POWER ESTIMATION Hogg & Fuerstenau Model

Remarks

Base Case Example : 36'φ x 17' SAG Mill.

Mill Dimensions and Operating Conditions

Eff. Diameter ft	Eff. Length ft	Mill Speed % Critical	Charge Filling, %	Balls Filling, %	Interstitial Slurry Filling, %	Lift Angle, (°)
35.00	17.00	76.00	28.00	10.00	60.00	38.00
	rpm	9.84				

Mill Power, kW

4477	Balls
2912	Rocks
1298	Slurry
8687	Net Total
5.00	% Losses
9144	Gross Total

% Solids in the Mill
Ore Density, ton/m³
Slurry Density, ton/m³
Balls Density, ton/m³

78.00
2.80
2.01
7.75

Charge
Volume,
m³

Mill Charge Weight, tons

	Ball Charge	O' size Rocks	Interstitial Slurry	Apparent Density ton/m ³
129.94	215.79	140.33	62.55	3.222