CALCULATE BALL MILL POWER

Moly-Cop Tools ™ (Version 2.0)

SCAW METALS GROUP

CONVENTIONAL BALL MILL POWER ESTIMATION
Hogg & Fuerstenau Model

Remarks Base Case Example

Mill Dimensions and Operating Conditions

Eff. Diameter ft	Eff. Length ft	Mill Speed % Critical	Charge Filling,%	Balls Filling,%	Interstitial Slurry Filling,%	Lift Angle, (°)
18.50	22.00	72.00	38.00	38.00	100.00	35.00
	rpm	12.82				

Mill Power, kW	
3348	Balls
0	Overfilling
536	Slurry
3885	**Net Total**
10.00	% Losses
4316	**Gross Total**

% Solids in the Mill	72.00
Ore Density, ton/m3	2.80
Slurry Density, ton/m3	1.86
Balls Density, ton/m3	7.75

Charge Volume, m3	Mill Charge Weight, tons: Ball Charge	Slurry: Interstitial	Slurry: above Balls	Apparent Density ton/m3
63.76	296.48	47.48	0.00	5.395