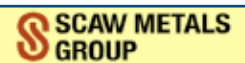


## DETERMINE OPTIMAL BALL SIZE

Moly-Cop Tools™ (Version 2.0)



### OPTIMAL MAKE-UP BALL SIZE

Remarks :

#### Mill Dimensions and Operating Conditions :

Eff. Diameter, ft	18.50	Eff. Diameter, m	5.64
Eff. Length, ft	22.00	Eff. Length, m	6.71
% Critical Speed	72.00	Mill Speed, rpm	12.82
Ball Dens., ton/m <sup>3</sup> (app)	4.65	Mill Volume, m <sup>3</sup>	167.79
Ball Filling, % (app)	38.00	Charge Weight, tons	296.22
Scrap Size, in	0.50		

#### Ore Properties :

Ore Density ton/m <sup>3</sup>	Work Index kWh/ton (metric)	Feed Size, F80 microns
2.80	13.00	9795

#### RECOMMENDED OPTIMAL BALL SIZE :

##### AZZARONI's Formula :

Optimal Ball Size, in	2.87	String Area, m <sup>2</sup> /m <sup>3</sup>	65.60
, mm	73		

##### ALLIS CHALMERS' Formula :

Optimal Ball Size, in	2.58	String Area, m <sup>2</sup> /m <sup>3</sup>	72.72
, mm	66		