

Copper &	Soft <	100	<350	12	20	Light base oil	
Its Alloys	Hard <2	200	<700	25	40	Light base oil	
Brass	Short Chipping <2	200	<700	30	45	Soluble oil, light duty oil	
	Long Chipping <2	200	<700	20	40	Soluble oil, light duty oil	
Bronze	Short Chipping <	300	<700	4		Soluble oil, light duty oil	
	Long Chipping <2	200	<700	20	30	Soluble oil, light duty oil	
Aluminum	Short Chipping Si<10% <	120	<400	20	35	Water soluble or oil/chemical especially for aluminum	
Magnesium	Short Chipping Si>10% <	120	<400	15	30	Water soluble or oil/chemical especially for aluminum	
	Long Chipping unalloyed <	100	<350	16	30	Oil specially recommended for magnesium	
	Medium Chipping Si <0.5% <	150	<500	30	50	Oil specially recommended for magnesium	
Zinc alloys				20	40	Soluble oil	

Type of hole



1. Material to be machined

- Hole type in which tapping is to be done Use above chart for tap selection (For Ex :- For Short chipping brass) Select the hole type as given below (For Ex. :- Blind hole) Use above chart for tap selection (For Ex. :- For short chipping brass) select the hole type as given below (For Ex. :- blind hole)
- Thread depth to be produced Select the hole type as given below (For Ex. :- blind hole with L < 3D)

4. Thread type required (For Ex.:- "M" metric type of thread)

5. General Tap dimensions required

(For Ex.:- IS 6175 - III)

- 6. For Thread Forming Tap :
- (a) For Fig.T1 & B1- Use Fluteless Tap (For Ex.:- L ≤ 1 - 1/2 D)
- (b) For Fig.T2 & B2- Use Fluteless Oil Groove.

- (For Ex.:- L < 3 D)
- 7. For Blind Hole Tapping :
- (a) For Fig.B1- Use 15[°] Spiral Flute
 - (For Ex.:- L \leq 1 1/2 D)
- (b) For Fig.B2- Use 35° Spiral Flute
 - (For Ex.:- L < 3 D)