

Simple binary transition metal oxides

	3	4	5	6	7	8	9	10	11	12										
1									Cu	Ag										
2		Ti	V	Nb		Mn	Fe	Co	Ni	Pd	Cu	Ag	Zn	Cd	Hg					
3	Sc	Y	Lu	Ti	V		Cr	Mn	Re	Fe	Co	Rh	Ir		Pd	Pt		Au		
4		Ti	Zr	Hf	V	Nb	Ta	Cr	Mo	W	Mn	Tc	Re	Ru	Os	Rh	Ir	Ni	Pd	Pt
5			V	Nb	Ta			Mo					Re							
6						Cr	Mo	W				Tc	Re		Os		Ir			Pt
7											Mn	Tc	Re							
8														Ru	Os					

Simple binary transition metal fluorides

	3	4	5	6	7	8	9	10	11	12										
1										Ag										Hg
2			V		Cr		Mn	Fe	Co		Ni	Pd	Cu	Ag		Zn	Cd	Hg		
3	Sc	Y	Lu	Ti	Zr	V	Nb	Cr	Mo	Mn	Fe	Ru	Co	Rh	Ir					Au
4		Ti	Zr	Hf	V	Nb		Cr	Mo	Mn	Re	Ru	Os	Rh	Ir	Pd	Pt			
5			V	Nb	Ta	Cr	Mo				Re	Ru	Os	Rh	Ir		Pt			Au
6						Cr	Mo	W			Tc	Re	Ru	Os	Rh	Ir				Pt
7												Re								

In both tables, the most stable oxidation state is in **bold**.