

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		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		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**.