

# IADC CLASSIFICATION FOR PDC AND DIAMOND BITS

IADC code consists of four characters, indicating bit body, formation type, cutting structure and bit profile. First character is literal, others – numerical.

**First literal code** character designates the bit body material (Steel, Matrix or Diamond).

**Second numerical code** character (1–8) designates the formation type being drilled. Category 5 has no code.

**Third numerical code** character designates drill bit cutting structure (PDC cutter size, diamond cutter type). Drill bits are equipped with 8–19 mm PDC cutters for 1–4 formation type categories and with natural diamonds, thermally stable polycrystalline diamonds (TSP), their combination or impregnated diamonds for 6–8 formation type categories.

**Fourth numerical code** character – bit profile.

1. Bit body	2. Formation type		3. Size of PDC cutters				4. Bit profile			
			1	2	3	4	1	2	3	4
S - steel M - matrix	Very soft	1	-	19	13	8	Short fishtail	Short profile	Medium profile	Long profile
	Soft	2								
	Soft to medium	3								
	Medium	4								
	No code	5	Diamond cutters type							
	Medium hard	6	Natural diamond	Thermally stable (TSP)	Combination	-				
	Hard	7								