



***Correlations of physical properties*** used in the Tesseral package and

***Templates of rock properties samples and lithology patterns***

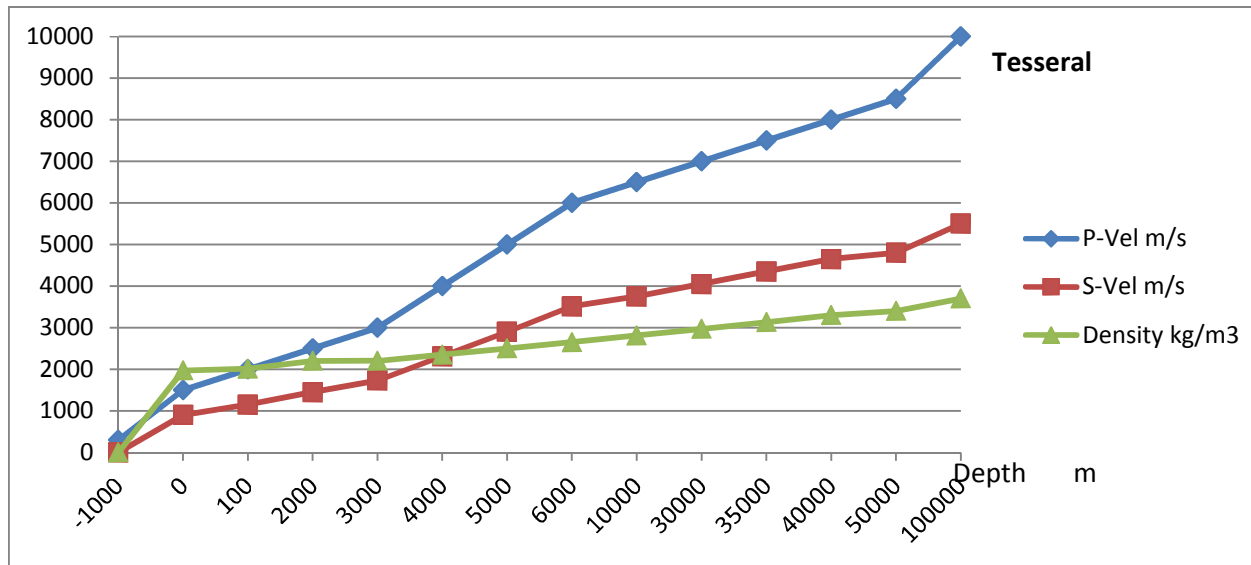
in text form are presented in the package directory ***\Templates*** folder. They can be modified and expanded by user.

**\* Default (Tesseral) Correlations of Physical Properties**

\* **Note:** first and last points - minimal and maximal allowed values

\* **File:** \_Correlations\_Rock Properties\_ -Tesseral-.txt

#	1 Correlations Tesseral					Thompson Parameters				Fracturing Parameters		
#	Depth	P-Vel	S-Vel	Density	Q-factor	Epsilon	Delta	A_Phi	A_Alpha	Dn	Dt	F_Phi
#	m	m/s	m/s	kg/m3	-	-	-	degree	degree	-	-	degree
0	-1000	300	0	1	1	0	0	0	0	0	0	0
1	0	1500	900	1970	5	0.15	0.1	0	0	0.2	0.2	90
2	100	2000	1150	2010	15	0.1	0.05	0	0	0.2	0.2	90
3	2000	2500	1450	2200	35	0.05	0.02	0	0	0.2	0.2	90
4	3000	3000	1730	2200	50	0.025	0.01	0	0	0.2	0.2	90
5	4000	4000	2310	2350	55	0.025	0.01	0	0	0.2	0.2	90
6	5000	5000	2900	2500	60	0.025	0.01	0	0	0.2	0.2	90
7	6000	6000	3510	2650	65	0.025	0.01	0	0	0.2	0.2	90
8	10000	6500	3750	2810	70	0.025	0.01	0	0	0.2	0.2	90
9	30000	7000	4050	2970	75	0.2	0.1	0	0	0.2	0.2	90
10	35000	7500	4350	3130	80	0.025	0.01	0	0	0.2	0.2	90
11	40000	8000	4650	3300	85	0.025	0.01	0	0	0.2	0.2	90
12	50000	8500	4800	3400	90	0.025	0.01	0	0	0.2	0.2	90
999	100000	10000	5500	3700	100	0.2	0.1	180	180	0.5	0.5	180

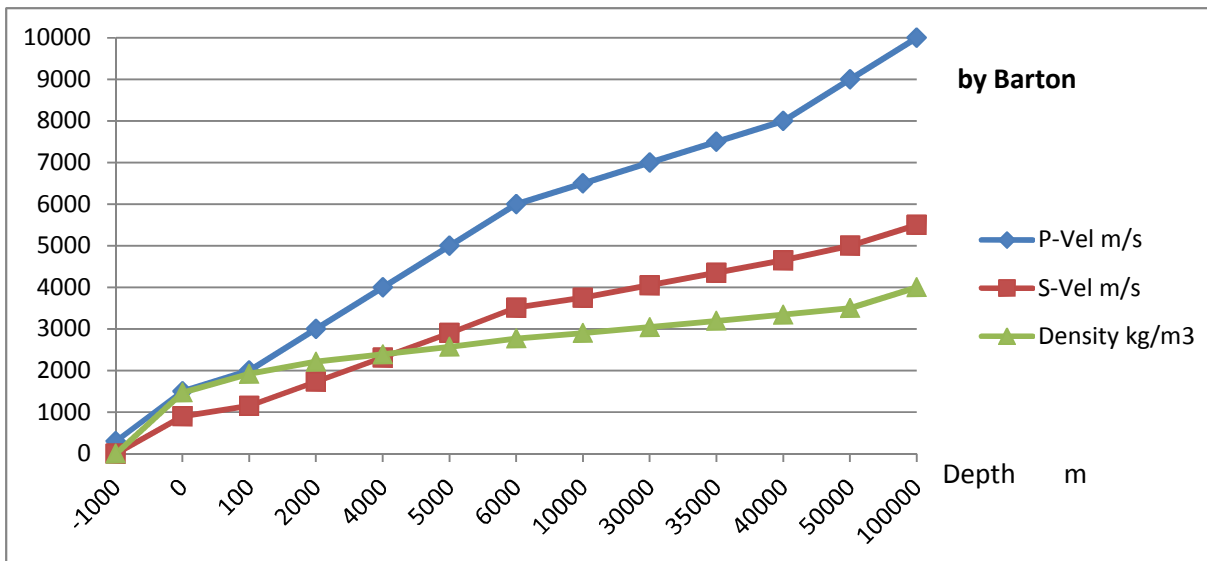


**\* by Barton P.J. (P-Vel,S-Vel, Density) Correlations of Physical Properties**

\* **Note:** first and last points - minimal and maximal allowed values

\* File: `_Correlations_Rock Properties_ -by Barton-.txt`

#	2 Correlations by_Barton					Thompssen Parameters				Fracturing Parameters		
#	Depth	P-Vel	S-Vel	Density	Q-factor	Epsilon	Delta	Phi	Alpha	Dn	Dt	Phi
#	m	m/s	m/s	kg/m3	-	-	-	degree	degree	-	-	degree
0	-1000	300	0	1	1	0	0	0	0	0	0	0
1	0	1500	900	1470	5	0.15	0.1	0	0	0.2	0.2	90
2	100	2000	1150	1920	15	0.1	0.05	0	0	0.2	0.2	90
3	2000	3000	1730	2210	35	0.05	0.02	0	0	0.2	0.2	90
4	4000	4000	2310	2390	50	0.025	0.01	0	0	0.2	0.2	90
5	5000	5000	2900	2570	60	0.025	0.01	0	0	0.2	0.2	90
6	6000	6000	3510	2770	65	0.025	0.01	0	0	0.2	0.2	90
7	10000	6500	3750	2900	70	0.025	0.01	0	0	0.2	0.2	90
8	30000	7000	4050	3040	75	0.025	0.01	0	0	0.2	0.2	90
9	35000	7500	4350	3190	80	0.2	0.1	0	0	0.2	0.2	90
10	40000	8000	4650	3340	85	0.025	0.01	0	0	0.2	0.2	90
11	50000	9000	5000	3500	90	0.025	0.01	0	0	0.2	0.2	90
999	100000	10000	5500	4000	100	0.2	0.1	180	180	0.5	0.5	180



**\* by Gardner G. (P-Vel,S-Vel, Density) Correlations of Physical Properties**

\* **Note:** first and last points - minimal and maximal allowed values

\* **File:** Correlations\_Rock Properties\_ -by Gardner-.txt

#	3 Correlations by_Gardner					Thompssen Parameters				Fracturing Parameters		
#	Depth	P-Vel	S-Vel	Density	Q-factor	Epsilon	Delta	Phi	Alpha	Dn	Dt	Phi
#	m	m/s	m/s	kg/m3	-	-	-	degree	degree	-	-	degree
0	-1000	300	0	1	1	0	0	0	0	0	0	0
1	0	1500	900	1920	5	0.15	0.1	0	0	0.2	0.2	90
2	100	2000	1150	2060	15	0.1	0.05	0	0	0.2	0.2	90
3	2000	3000	1730	2280	35	0.05	0.02	0	0	0.2	0.2	90
4	4000	4000	2310	2450	50	0.025	0.01	0	0	0.2	0.2	90
5	5000	5000	2900	2580	60	0.025	0.01	0	0	0.2	0.2	90
6	6000	6000	3510	2700	70	0.025	0.01	0	0	0.2	0.2	90
7	40000	8000	4650	2920	80	0.025	0.01	0	0	0.2	0.2	90
8	50000	9000	5000	3500	90	0.025	0.01	0	0	0.2	0.2	90
999	100000	10000	5500	4000	100	0.2	0.1	180	180	0.5	0.5	180

