



HARLEN QUARRY SUPPLIES

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010-442-1773



**HQS is a leading supplier of drills,
drill bits and drill steels to the
Quarry and Construction Industry.**

CARBURIZED DRILL STEELS

Kenella



CARBURIZED DRILL STEELS - TECHNICAL SPECS

STEEL QUALITY

Kenella drill steels are a high nickel alloy steel with industry-preferred carburizing, penetrating between 0.8mm to 1.1mm. This ensures excellent wear resistance suitable for wet or dry drilling in any rock. Kenella drill steels are manufactured with a 108mm shank and a forged collar in 22 Hex material. Kenella drill steels are manufactured with an 11 degree taper. (Please note also available in a 7° or 12° degree taper on request)

CHEMICAL COMPOSITIONS

C	Si	Mn	P	S	Ni	Cr	Mo	V	Cu
0.230	0.285	0.742	0.0093	0.0148	3.171	1.290	0.237	0.008	0.027

BEND TEST

Test Sample	Bend Load (kgf)	Fracture Position
Ø22 drill rod	2275	Rod fracture

MARKETS

- Dimension Stone Industry
- Quarrying Industry (Open Cast Quarry)
- Civils & Construction Industry

★ Span length: 600mm. Radius of the mandrel: 38mm

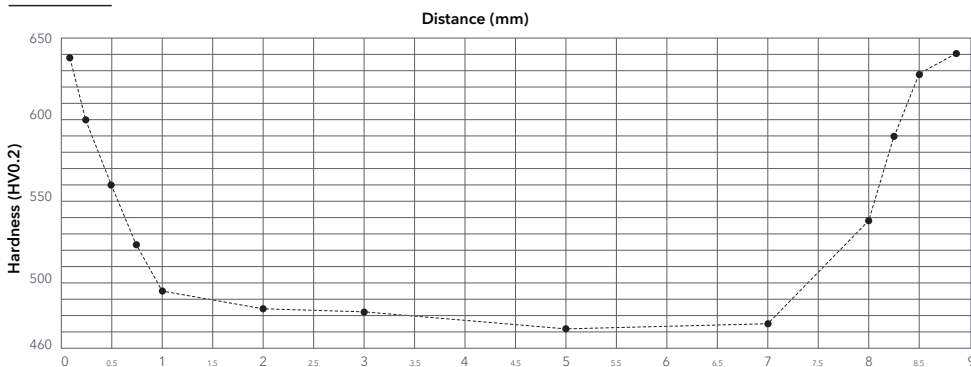
HARDNESS TEST

Test condition: Load is 0.2kgf and keeping loading 15 sec

Test Sample	Hardness (HRC/HV)	Test Sample	Hardness (HRC/HV)
Distance from the surface 0.1mm	57.2/637	Distance from the 5.0mm	47.1/472
Distance from the surface 0.25mm	56.0/600	Distance from the 7.0mm	47.3/476
Distance from the surface 0.5mm	53.0/560	Distance from the 8.0mm	51.6/539
Distance from the surface 0.75mm	50.8/524	Distance from the 8.25mm	54.6/588
Distance from the surface 1.0mm	48.8/496	Distance from the 8.5mm	56.7/629
Distance from the surface 2.0mm	48.0/485	Distance from the 8.85mm	57.2/639
Distance from the surface 3.0mm	47.9/483		

★ from the edge of the hole to the outer diameter of the direction of measurement.

TPI (SGS)*



*TPI (SGS) report available on request.

DRILL LENGTHS

0.8 m	1.2 m
1.6 m	1.8 m
2.4 m	3.2 m
4.0 m	4.8 m
5.6 m	6.4 m
7.2 m	8.0 m

Other drill lengths can be made to order

