



**BUOYANCY**<sup>®</sup>  
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## Viscous Grade Bitumen (BND) - GOST 22245-90 Standards

Viscous grades of bitumen exported by BUOYANCY<sup>®</sup> are in compliance to GOST 22245-90 standards. They are divided into BND (road bitumen) and BN (petroleum bitumen) as per below.

BND ( Road Bitumen)	BN( Petroleum Bitumen)
BND 40/60	BN 40/60
BND 60/90	BN 60/90
BND 90/130	BN 90/130
BND 130/200	BN 130/200

Numbers fraction like 40-60 or 60-90 indicates the permissible limits of the grade indices of the depth of penetration of a standard needle at 25°C, characterizing indirectly the viscosity of bitumen. BND grades have a good adhesion to the different stone materials and a high flexibility at low temperatures, resistant to climatic influences. Viscous road bitumen are applied for the preparation of hot, warm and cold asphalt mixes, surface treatment, impregnation and dilution to obtain liquid bitumen, used for preparation of cold asphalt surface treatment and mixing on the road, etc. These qualities are interconnected with the increase of oil substance, rise of temperature and load duration reduces the viscosity and increases flexibility. BND Bitumen is used to impregnate the macadam road in regions with warm climate, for preparation of hot asphalt and bituminous mixtures in regions with warm climate.

Properties	BND 200/300	BND 130/200	BND 90/130	BND 60/90	BND 40/60
<b>The depth of penetration of the needle into the bitumen, 0.1 mm</b>					
at 25 ° C	201-300	131-200	91-130	61-90	40-60
at 0 ° C	45	35	28	20	13
Softening point ring and ball, ° C, Min	35	39	43	47	51
<b>Extensibility, Min</b>					
at 25 ° C	-	65	60	50	40
at 0 ° C	20	6	4,2	3,5	-
Brittleness temperature, ° C, Max	-20	-18	-17	-15	-10
Flash Point, ° C, Min	200	220	220	220	220
Change of softening temperature after heating, ° C, Max	8	7	6	6	6
Penetration index	+1	-	-1	-1	-1
Content of water-soluble compounds,%, Max	0.2	0.2	0.3	0.3	0.3

Accredited: ISO9001:2015 | ISO 14001:2015 | ISO45001:2018

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