

<b>CE</b> 1035
CANTERAS Y HORMIGONES SANTANDER S.L. Bº LA VENTA S/N - 39608 IGOLLO DE CAMARGO CANTABRIA - ESPAÑA 04 CANTERA DE CARANCEJA Nº CERT.: 1035-CPR-ES037756-1

MORTAR	AGGREGATES FOR MORTAR - EN 13139														
	PRODUCT	PRODUCT CODE	PARTICLE SHAPE				CLEANLINESS			COMPOSITION / CONTENT					
			Particle Size	Granulometry			Particle Density	Sand Equivalent	Methylene Blue	Fines Content	Chlorides	Acid Soluble Sulphates	Total Sulphur	Water Absorption	Durability Against Freeze / Thaw
SAND 0/2	A02-1 MOR	0/2	4 mm- 100%	3 mm- 95-100%	2 mm- 85-99%	2,69 Mg/m <sup>3</sup>	S.E. ≥ 75	<0,40	Category 4	< 0,01% Cl <sup>-</sup>	AS <sub>0,2</sub>	<1% S	0,35%	SM <sub>18</sub>	
SAND 0/4	A04-1 MOR	0/4	8 mm- 100%	5,6 mm- 95-100%	4 mm- 85-99%	2,69 Mg/m <sup>3</sup>	S.E. >80	NPD	Category 4	< 0,01% Cl <sup>-</sup>	AS <sub>0,2</sub>	<1% S	0,35%	SM <sub>18</sub>	

CONCRETE	AGGREGATES FOR CONCRETE - EN 12620															
	PRODUCT	PRODUCT CODE	PARTICLE SHAPE				CLEANLINESS			OTHER PROPERTIES			COMPOSITION / CONTENT			
			Particle Size	Granulometry	Particle Shape Flakiness index	Particle Density	Sand Equivalent	Methylene Blue	Fines Content	Resistance to Fragmentation / Crushing	Water Absorption	Durability Against Freeze / Thaw	Chlorides	Acid Soluble Sulphates	Total Sulphur	Constituents which Alter the Rate of Setting and Hardening of Concrete
SAND 0/2	A02-1 HOR	0/2	G <sub>85</sub>	NPD	2,69 Mg/m <sup>3</sup>	S.E. ≥ 75	<0,40	f <sub>22</sub>	NPD	0,35%	SM <sub>18</sub>	< 0,01% Cl <sup>-</sup>	AS <sub>0,2</sub>	<1% S	pass	
SAND 0/4	A04-1 HOR	0/4	G <sub>85</sub>	NPD	2,69 Mg/m <sup>3</sup>	S.E. >80	NPD	f <sub>16</sub>	NPD	0,35%	SM <sub>18</sub>	< 0,01% Cl <sup>-</sup>	AS <sub>0,2</sub>	<1% S	pass	
SAND 0/5	A05-1 HOR	0/5	G <sub>85</sub>	NPD	2,69 Mg/m <sup>3</sup>	S.E. >75	<0,50	f <sub>16</sub>	NPD	0,35%	SM <sub>18</sub>	< 0,01% Cl <sup>-</sup>	AS <sub>0,2</sub>	<1% S	pass	
GRAVEL 4/8	G48-1 HOR	4/8	G <sub>c</sub> 85/20	Fl <sub>35</sub>	2,71 Mg/m <sup>3</sup>	NPD	NPD	f <sub>1,5</sub>	LA <sub>25</sub>	0,30%	SM <sub>18</sub>	< 0,01% Cl <sup>-</sup>	AS <sub>0,2</sub>	<1% S	pass	
GRAVEL 4/12	G612-1 HOR	4/12	G <sub>c</sub> 90/15	Fl <sub>20</sub>	2,71 Mg/m <sup>3</sup>	NPD	NPD	f <sub>1,5</sub>	LA <sub>25</sub>	0,30%	SM <sub>18</sub>	< 0,01% Cl <sup>-</sup>	AS <sub>0,2</sub>	<1% S	pass	
GRAVEL 10/20	G1220-1 HOR	10/20	G <sub>c</sub> 85/20	Fl <sub>15</sub>	2,71 Mg/m <sup>3</sup>	NPD	NPD	f <sub>1,5</sub>	LA <sub>25</sub>	0,30%	SM <sub>18</sub>	< 0,01% Cl <sup>-</sup>	AS <sub>0,2</sub>	<1% S	pass	
GRAVEL 20/32	G2032-1 HOR	20/32	G <sub>c</sub> 85/20	Fl <sub>15</sub>	2,71 Mg/m <sup>3</sup>	NPD	NPD	f <sub>1,5</sub>	LA <sub>25</sub>	0,30%	SM <sub>18</sub>	< 0,01% Cl <sup>-</sup>	AS <sub>0,2</sub>	<1% S	pass	



ASPHALT	AGGREGATES FOR BITUMINOUS MIXTURES - EN 13043 13043														
	PRODUCT	PRODUCT CODE	PARTICLE SHAPE				CLEANLINESS			OTHER PROPERTIES					
			Particle Size	Granulometry	Grading Coarse	Particle Shape Flakiness index	Particle Density	Sand Equivalent	Methylene Blue	Fines Content	Percentage of Crushed Particles / Broken Surfaces	Resistance to Fragmentation / Crushing	Durability Against Freeze / Thaw		
SAND 0/5	A05-1 MBC	0/5	G <sub>85</sub>	GTC NR	NPD	2,69 Mg/m <sup>3</sup>	S.E. > 75	MBF10	f <sub>16</sub>	NPD	NPD	f <sub>1,5</sub>	C 100/0	LA <sub>25</sub>	SM <sub>18</sub>
GRAVEL 4/12	G612-1 MBC	4/12	G <sub>c</sub> 90/15	G <sub>20/15</sub>	Fl <sub>20</sub>	2,71 Mg/m <sup>3</sup>	NPD	NPD	f <sub>1,5</sub>	C 100/0	LA <sub>25</sub>	SM <sub>18</sub>			
GRAVEL 10/20	G1220-1 MBC	10/20	G <sub>c</sub> 85/20	G <sub>20/15</sub>	Fl <sub>15</sub>	2,71 Mg/m <sup>3</sup>	NPD	NPD	f <sub>1,5</sub>	C 100/0	LA <sub>25</sub>	SM <sub>18</sub>			
GRAVEL 20/32	G2032-1 MBC	20/32	G <sub>c</sub> 85/20	G <sub>20/15</sub>	Fl <sub>15</sub>	2,71 Mg/m <sup>3</sup>	NPD	NPD	f <sub>1,5</sub>	C 100/0	LA <sub>25</sub>	SM <sub>18</sub>			
GRAVEL 20/40	G2040-1 MBC	20/40	G <sub>c</sub> 85/20	G <sub>20/15</sub>	Fl <sub>15</sub>	2,71 Mg/m <sup>3</sup>	NPD	NPD	f <sub>1,5</sub>	C 100/0	LA <sub>25</sub>	SM <sub>18</sub>			

ROADS	AGGREGATES FOR UNBOUND AND HIDRAULICALLY BOUND MATERIALS - EN 13242																
	PRODUCT	PRODUCT CODE	PARTICLE SHAPE				CLEANLINESS			COMPOSITION			OTHER PROPERTIES				
			Particle Size	Granulometry	Particle Shape Flakiness index	Particle Density	Sand Equivalent	Methylene Blue	Fines Content	Acid Soluble Sulphates	Total Sulphur	Percentage of Crushed Particles / Broken Surfaces	Resistance to Fragmentation / Crushing	Water Absorption	Durability Against Freeze / Thaw		
ALL IN 0/32	Z032-1 ACG	0/32	G <sub>80</sub>	Fl <sub>20</sub>	2,71 Mg/m <sup>3</sup>	S.E. >65	MB < 10	f <sub>9</sub>	AS <sub>0,2</sub>	<1%	C 90/3	LA <sub>25</sub>	NPD	WA<5%	SM <sub>18</sub>		
ALL IN 0/32	S032-1 ACG	0/32	G <sub>80</sub>	Fl <sub>20</sub>	2,71 Mg/m <sup>3</sup>	S.E. >35	MB < 10	f <sub>9</sub>	AS <sub>0,2</sub>	<1%	C 90/3	LA <sub>25</sub>	NPD	WA<5%	SM <sub>18</sub>		



ARMOURSTONE	ARMOURSTONE - EN 13383						
	PRODUCT	PRODUCT CODE	Particle Size	Granulometry	Resistance to Breakage	Resistance to Attrition	Durability against salt crystallisation
	ARMOURSTONE	E1000-3000-1	LTA	HMA <sub>1000-3000</sub>	CS <sub>60</sub>	M <sub>Dc</sub> 30	MS <sub>25</sub>