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ROBERTSON RESEARCH (AUSTRALIA) PTY. LIMITED

MEMORANDUM NO. 822

PROJECT NO. 756/9807/6B

MICROFILMED

MACQUARIE HARBOUR PROJECT:

SIZING OF DRILL SAMPLES

D of M	A.O.	C.G.	E.O.	D.S.M.E.
				Registrar
D. DIR.	6 SEP 1984			E & IL
	DEPT. OF MINES			
REF. No.	92004/84			

Prepared for:

Australia-Cities Service Inc,
151-153 Macquarie Street,
SYDNEY N.S.W. 2000

12th September, 1975.

ROBERTSON RESEARCH (AUSTRALIA) PTY. LIMITED

REGISTERED OFFICE & LABORATORY MOSS VALE ROAD, BOWRAL, N.S.W. 2576
 Telephones BOWRAL STD 048 61 2388, 61 2191
 Telegraphic Address RESEARCH BOWRAL
 Telex No. AA22789

SYDNEY OFFICE
 A.D.C. HOUSE,
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 Telephones: 929 5433, 929 5709
 Telegraphic Address
 RESEARCH SYDNEY

PERTH OFFICE
 OLIVIER HOUSE,
 1318 MAY STREET,
 WEST PERTH,
 W.A. 6005
 Telephone: 22 2809
 Telegraphic Address
 RESEARCH PERTH

Certificate of Analysis

(Comprising 2 sheets)

CERTIFICATE No. **NO 4093**

PROJECT No. **756/9807/6B**

YOUR REFERENCE:

DATE: **8th September 1975**

CLIENT: **Australia-Cities Service Inc,
 151-153 Macquarie Street,
 SYDNEY N.S.W. 2000**

DATE SAMPLES RECEIVED:

FOR THE ATTENTION OF: **Mr. D. Buchholz**

Samples from:

Area:

Samples of:

B.S.S. SCREEN

DRILL HOLE	+30	30/52	52/100	100/200	200/300	-300
DH2-1	-	0.2	6.9	40.8	23.7	28.4
DH2-2	0.2	0.6	20.9	43.1	13.1	22.1
DH2-3	-	0.1	15.0	48.7	13.8	22.4
DH2-4	1.1	1.5	18.9	16.6	7.1	54.8
DH2-5	46.0	5.9	7.5	8.7	8.3	23.6
DH3-1	-	0.2	2.3	25.9	23.9	47.7
DH3-2	0.1	0.0	1.1	23.8	17.9	57.1
DH3-3	-	0.1	5.3	47.1	19.6	27.9
DH3-4	24.7	3.8	4.3	14.4	12.7	40.1
DH4-1	0.1	0.1	2.1	18.2	21.0	58.5
DH4-2	-	0.1	1.2	31.9	24.8	42.0
DH4-3	-	0.2	4.8	29.0	22.1	43.9
DH4-4	2.2	1.6	5.7	20.7	15.9	53.9
DH5-1	0.1	1.1	28.2	28.9	14.1	27.6
DH5-2	0.2	0.6	17.1	32.5	15.5	34.1
DH5-3	-	0.2	3.2	17.3	21.3	58.0
DH5-4	2.5	1.4	3.3	13.0	12.0	67.8
DH60-1*	21.4	22.2	32.5	17.4	2.0	4.5
DH60-2*	23.7	21.6	25.0	22.6	1.4	5.7
DH61-1	1.0	5.9	33.4	39.9	7.9	11.9
DH61-2	-	2.6	15.8	57.9	13.5	10.2
DH61-3	-	0.9	8.9	39.5	18.6	32.1

...../2



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for and on behalf of
ROBERTSON RESEARCH (AUSTRALIA) PTY. LIMITED

002

ROBERTSON RESEARCH (AUSTRALIA) PTY. LIMITED

SYDNEY OFFICE: ADC HOUSE, 77 PACIFIC HIGHWAY, NORTH SYDNEY, N.S.W. 2060 • TELEPHONES: 929 5433, 929 5709
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PERTH OFFICE
OLIVIER HOUSE
1318 MAY STREET
WEST PERTH, W.A. 6005
TELEPHONE: 22 2809

Certificate of Analysis

Sheet No. two of Certificate No. 4093

B.S.S. SCREEN

DRILL HOLE	+30	30/52	52/100	100/200	200/300	-300
DH62-1	2.0	11.4	56.9	24.8	2.0	2.9
DH62-2	2.4	15.2	37.8	33.5	2.4	8.7
DH62-3	0.5	5.2	21.8	43.6	12.7	16.2
DH63-1	1.0	6.1	44.4	30.2	2.5	15.8
DH64-1	0.4	6.8	35.0	29.4	7.9	20.5
DH64-2	1.0	21.9	59.6	12.8	0.3	4.4
DH65-1	0.9	3.1	30.7	44.3	8.0	13.0
DH65-2	2.5	16.8	58.4	19.4	1.2	1.7
DH65-3	2.1	7.6	25.0	43.3	13.5	8.5
DH65-4	1.6	1.1	3.6	34.9	24.4	34.4
DH66-1	0.4	0.5	8.6	45.1	16.2	29.2
DH66-2	1.3	7.6	31.2	45.2	7.6	7.1
DH66-3	0.9	1.8	6.8	60.3	14.4	15.8
DH67-1	1.0	2.9	32.2	36.0	10.3	17.6
DH67-2	1.7	5.8	56.7	26.2	5.1	4.5
DH67-3	1.7	5.3	49.7	28.1	7.0	8.2
DH67-4	0.5	0.4	8.6	33.1	16.1	41.3
DH67-5	1.5	2.8	11.3	24.3	16.9	43.2
DH68-1	5.3	18.8	54.3	16.8	2.7	2.1
DH68-2	1.8	27.7	56.7	9.1	1.8	2.9
DH68-3	2.0	23.3	25.0	18.7	15.9	15.1
DH69-1	1.5	11.3	37.8	34.4	5.2	9.8
DH69-2	0.9	6.7	19.2	53.7	10.6	8.9
DH70-1	4.4	10.0	43.6	30.7	5.1	6.2
DH70-2	0.9	8.2	56.8	27.2	3.4	3.5
DH70-3A	2.7	1.8	5.9	30.5	25.5	33.6
DH70-3	1.0	0.7	7.8	58.3	17.6	14.6
DH71-1	8.9	15.3	53.5	18.5	1.6	2.2
DH71-2	8.9	15.1	56.3	16.2	1.3	2.2
DH71-3	2.9	6.0	22.0	39.2	14.6	15.3
DH71-4	0.4	0.5	6.7	35.9	28.2	28.3
DH72-1	10.2	17.6	55.2	13.5	1.7	2.0
DH72-2	3.2	6.5	53.2	28.9	4.1	4.1
DH72-3	0.5	0.8	5.8	59.0	19.3	14.6
DH73-1	4.1	12.0	36.2	33.1	8.2	6.4
DH73-2	10.0	16.4	35.9	26.2	5.0	6.5
DH73-3	1.0	0.8	8.6	54.2	19.8	15.6
DH73-4	1.1	1.0	6.3	38.3	26.8	26.5
DH74-1	8.4	19.7	54.1	14.3	1.8	1.7
DH74-2	2.2	8.8	53.1	24.3	4.4	7.2
DH74-3	3.8	11.5	53.2	24.5	3.0	4.0
DH74-4	0.4	1.1	10.4	34.9	21.2	32.0
DH74-5	1.5	2.0	5.7	24.1	21.3	45.4

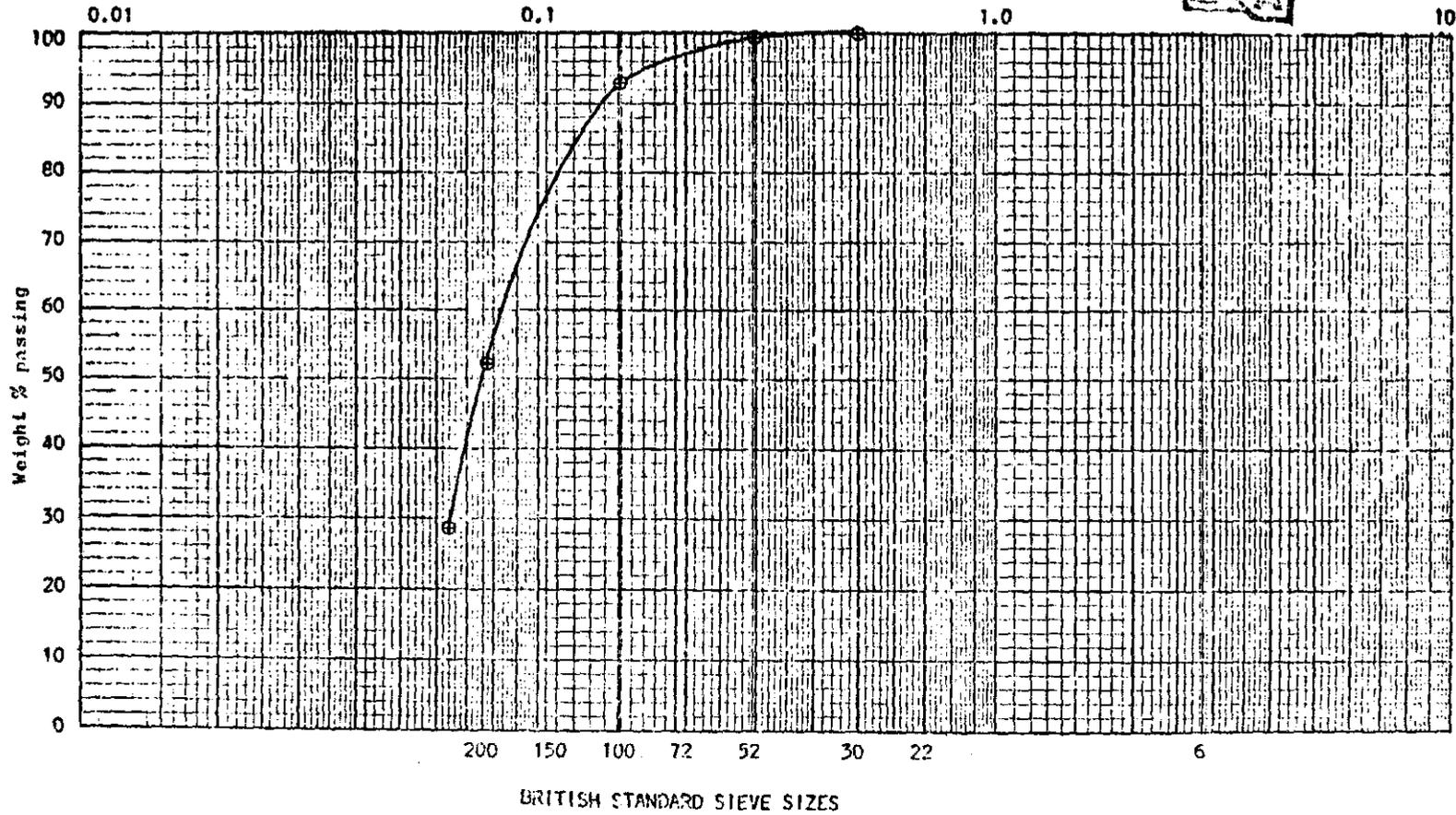
* Coarse fractions composed largely of hard cemented lumps formed on drying and/or oxidation of samples.

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER DHR:1...

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265004

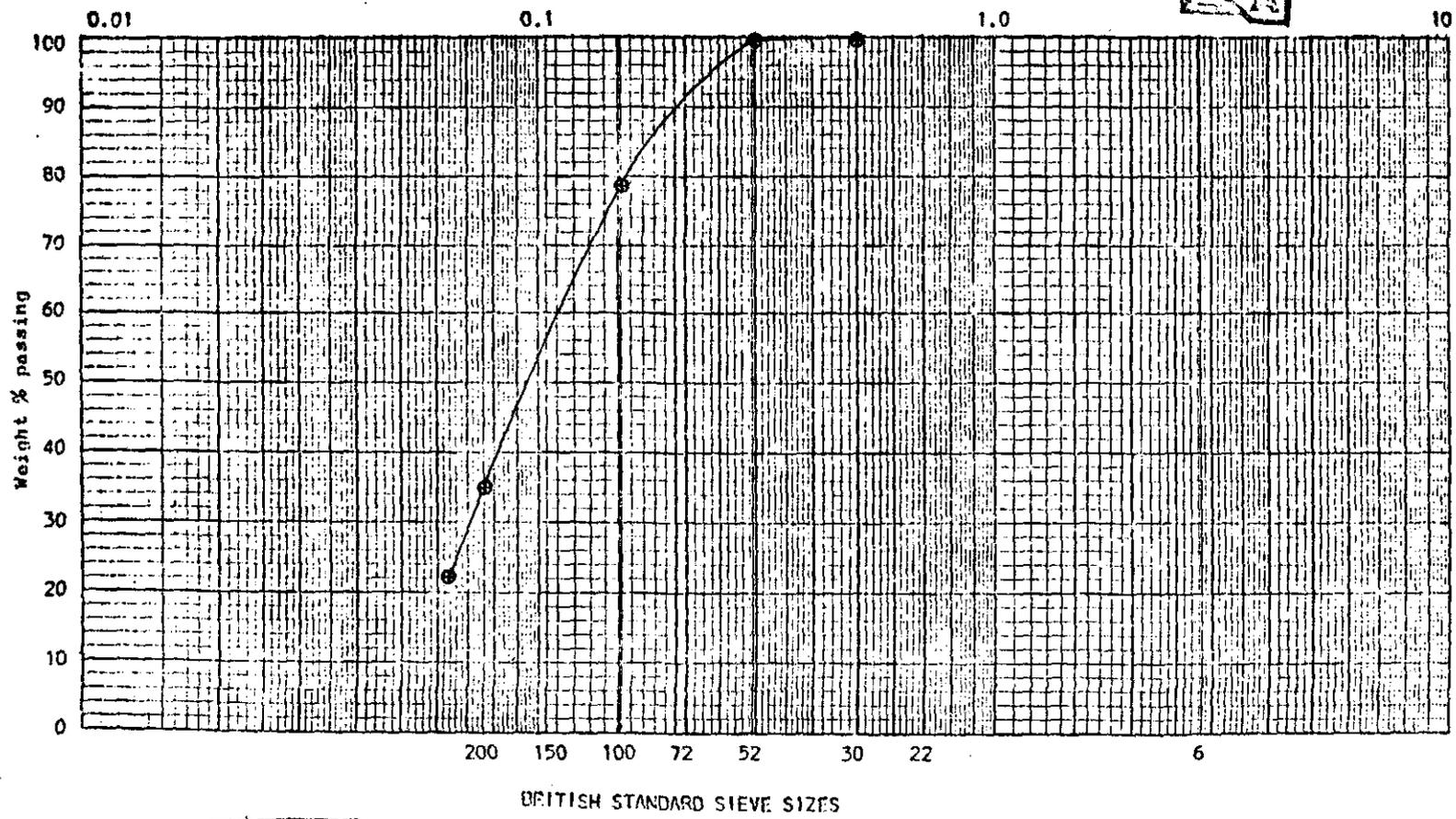
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



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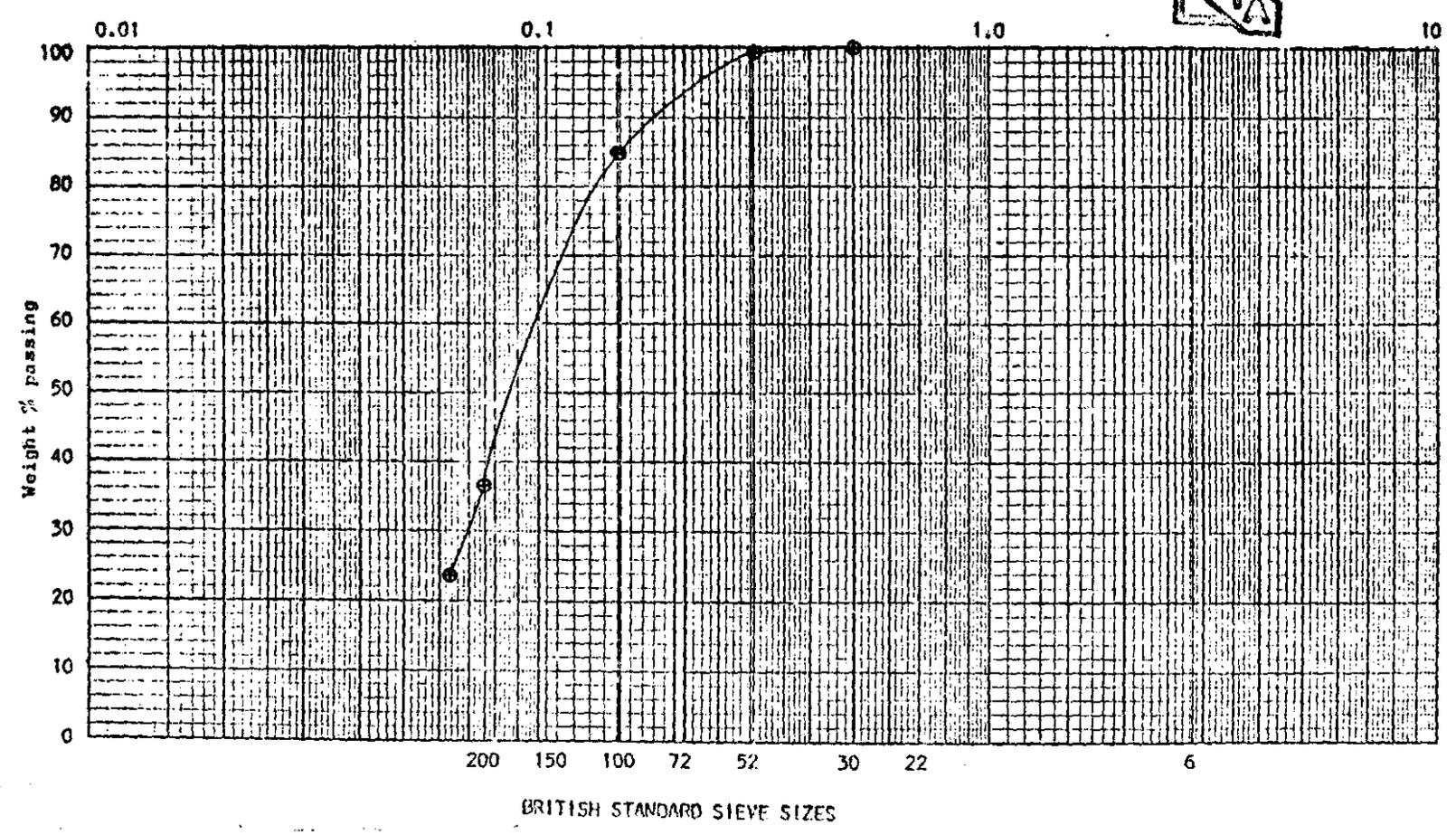
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



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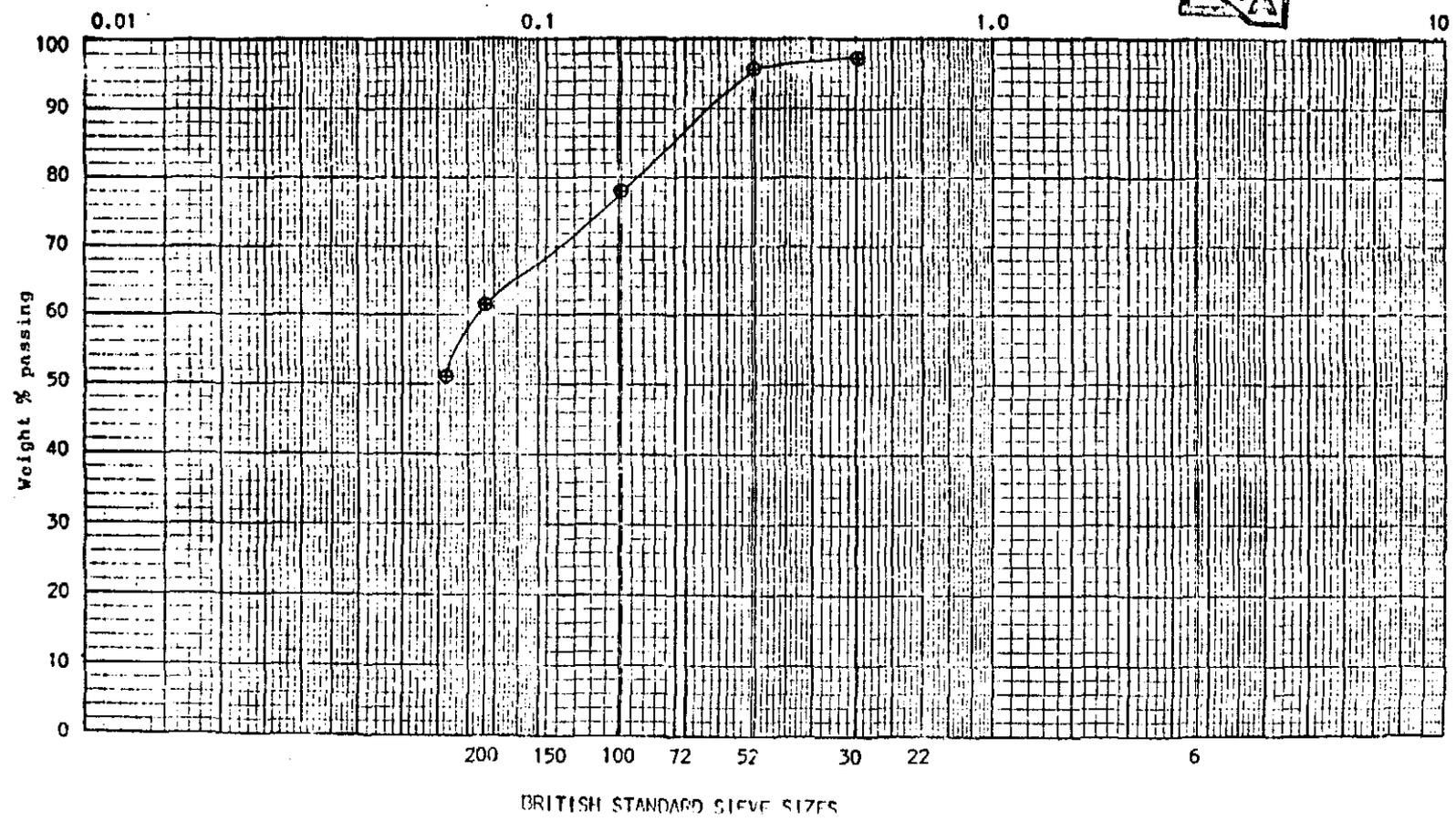
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



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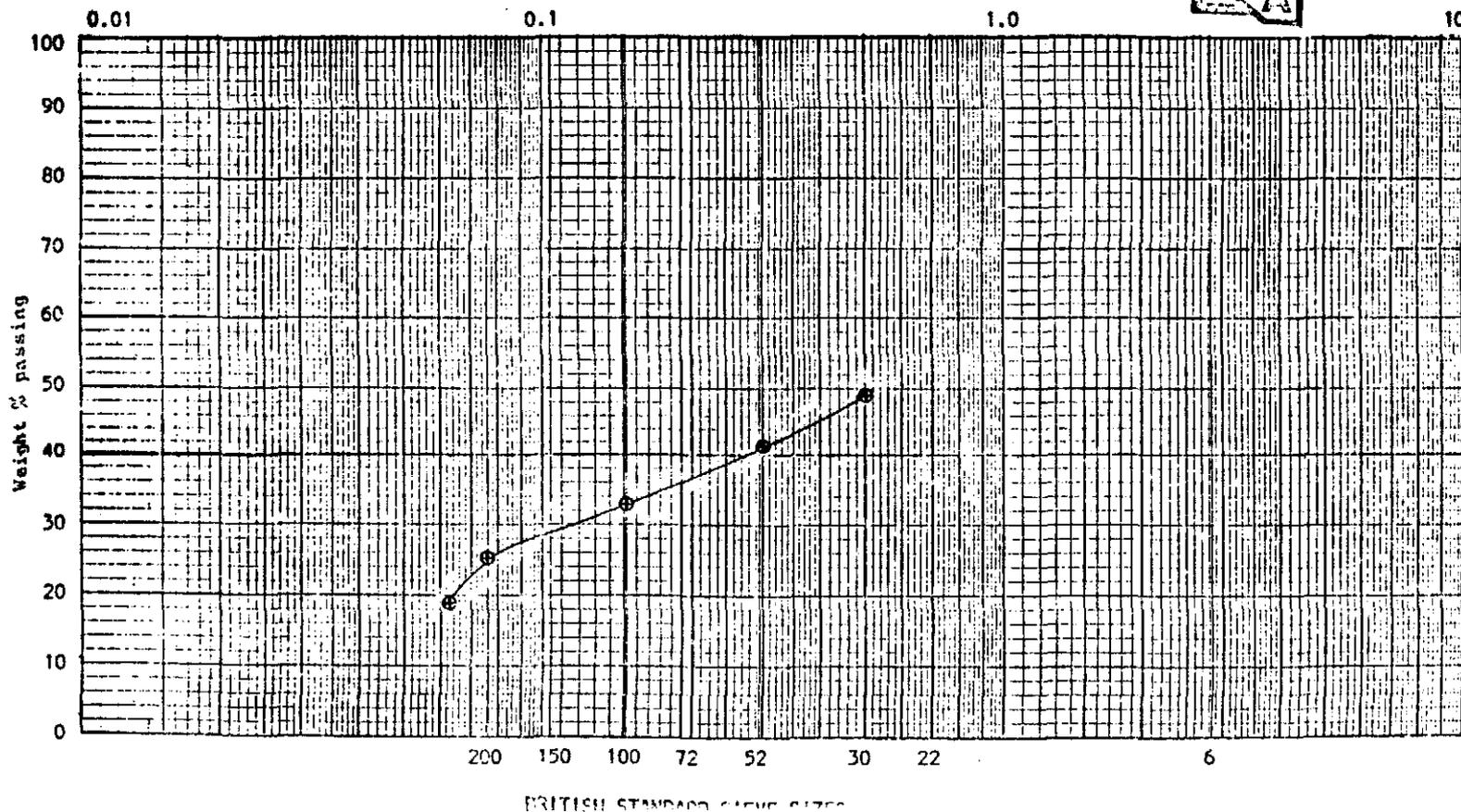
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



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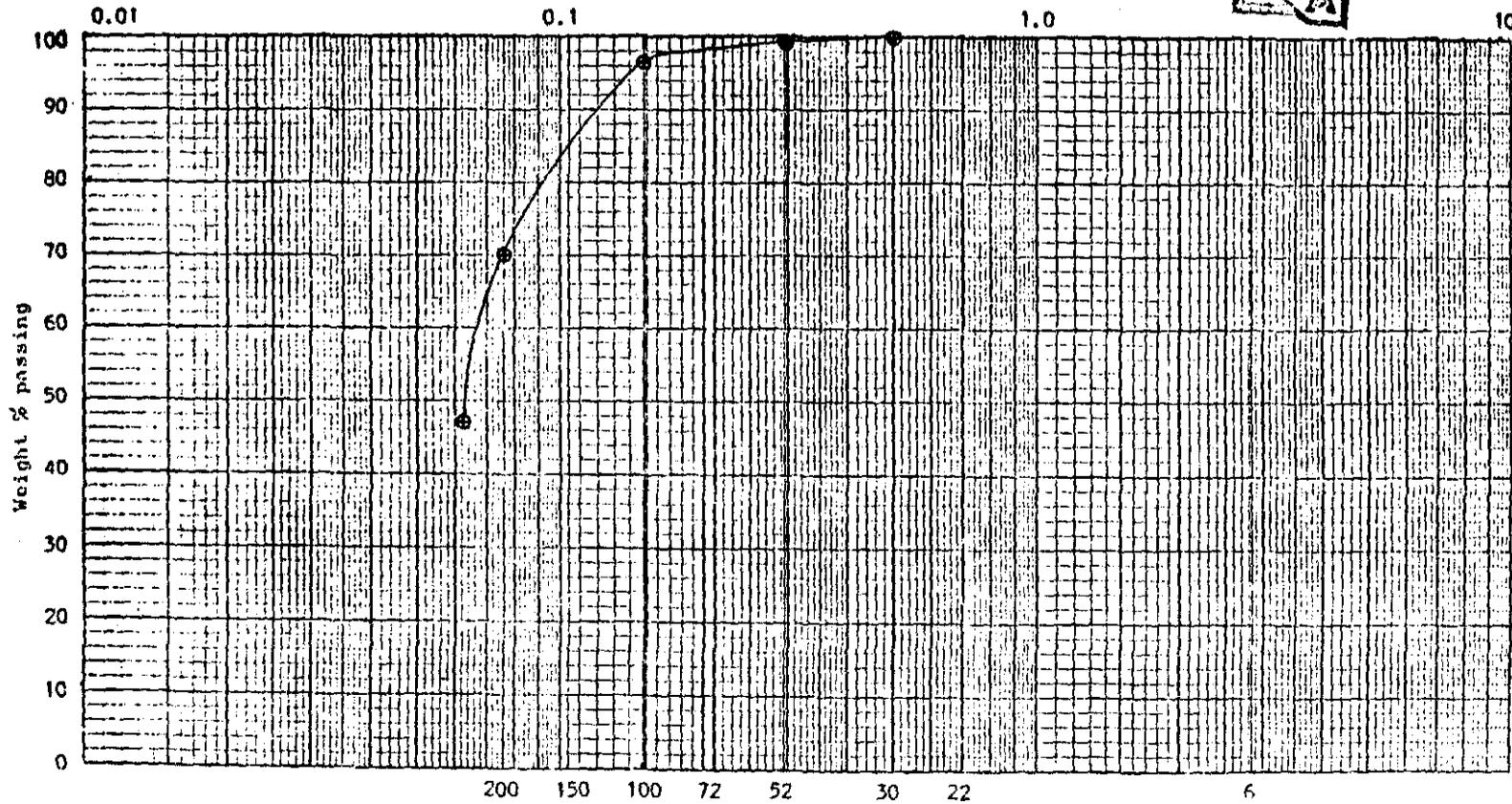
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



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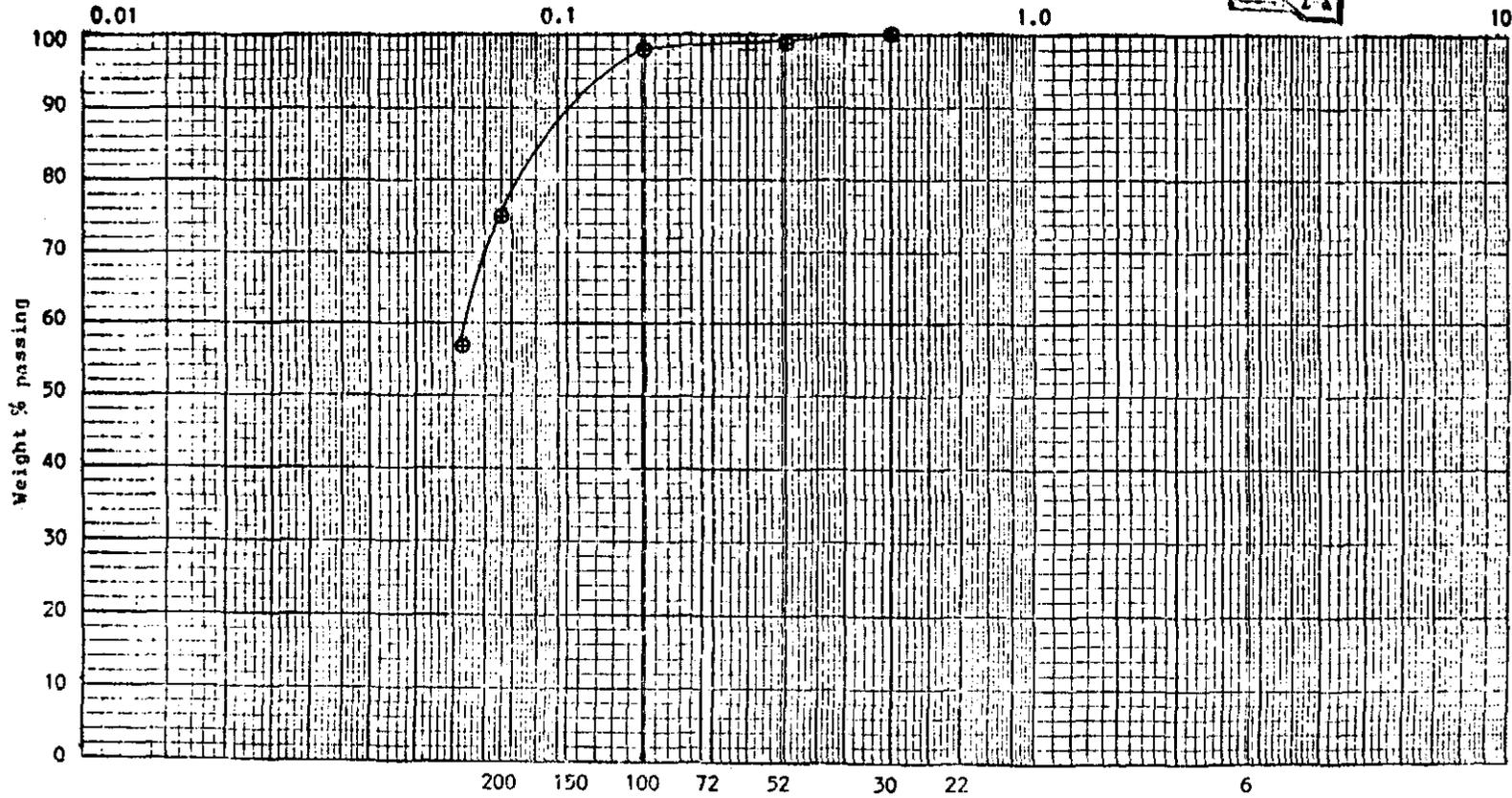
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SAMPLE NUMBER PH. 3-2..

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



BRITISH STANDARD SIEVE SIZES

265010

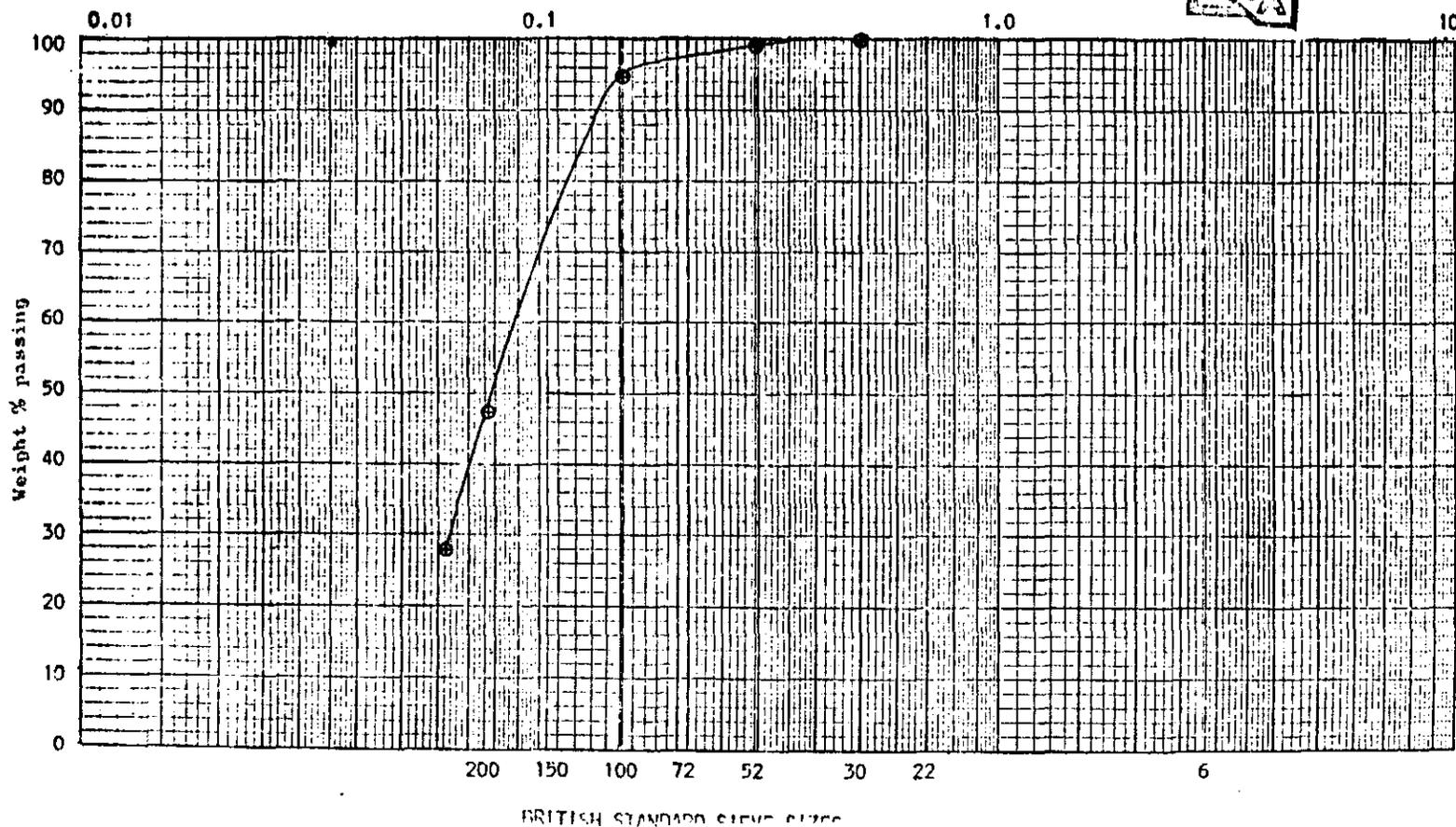
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SAMPLE NUMBER OH.3-3.

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265011

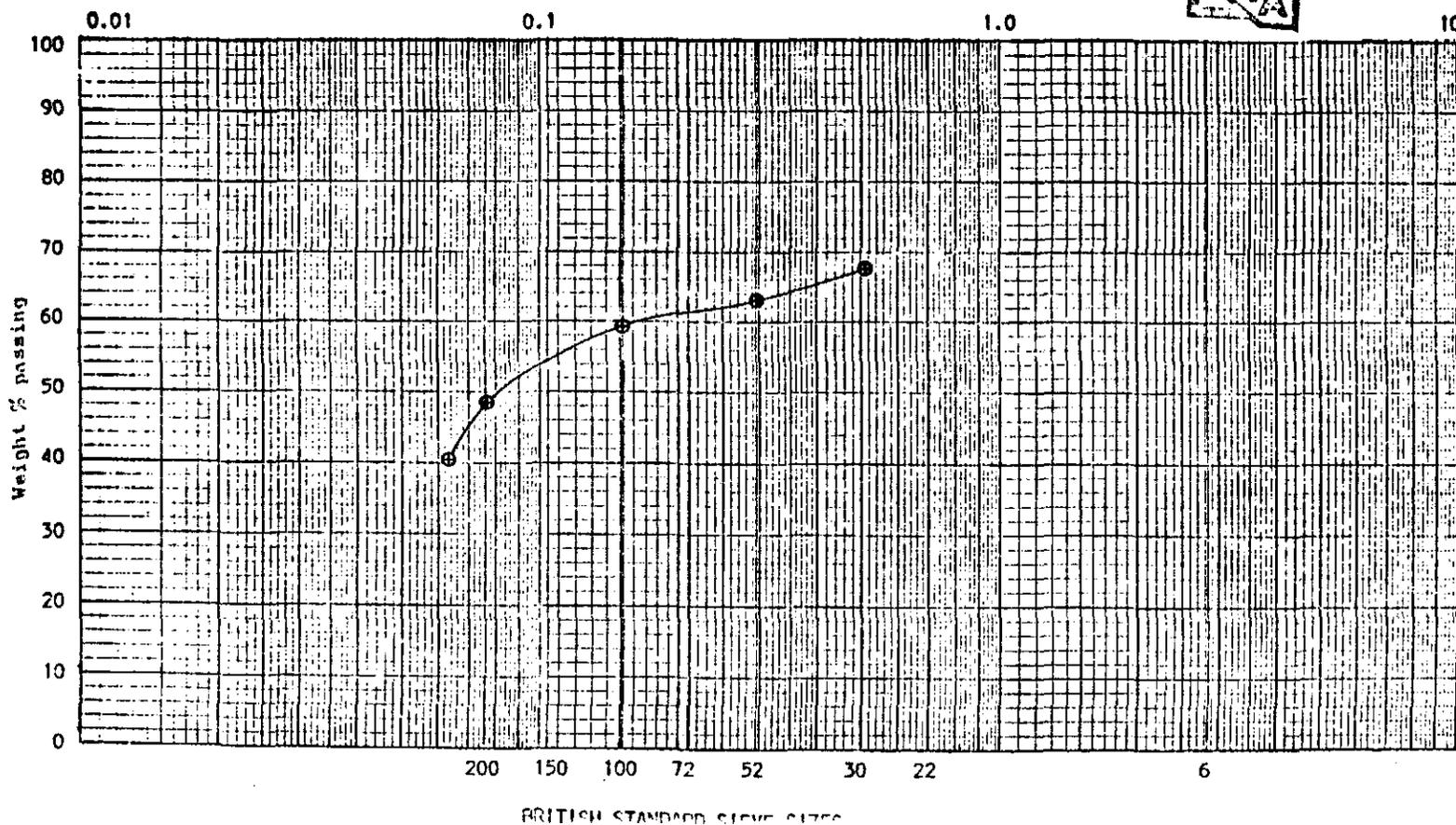
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265012

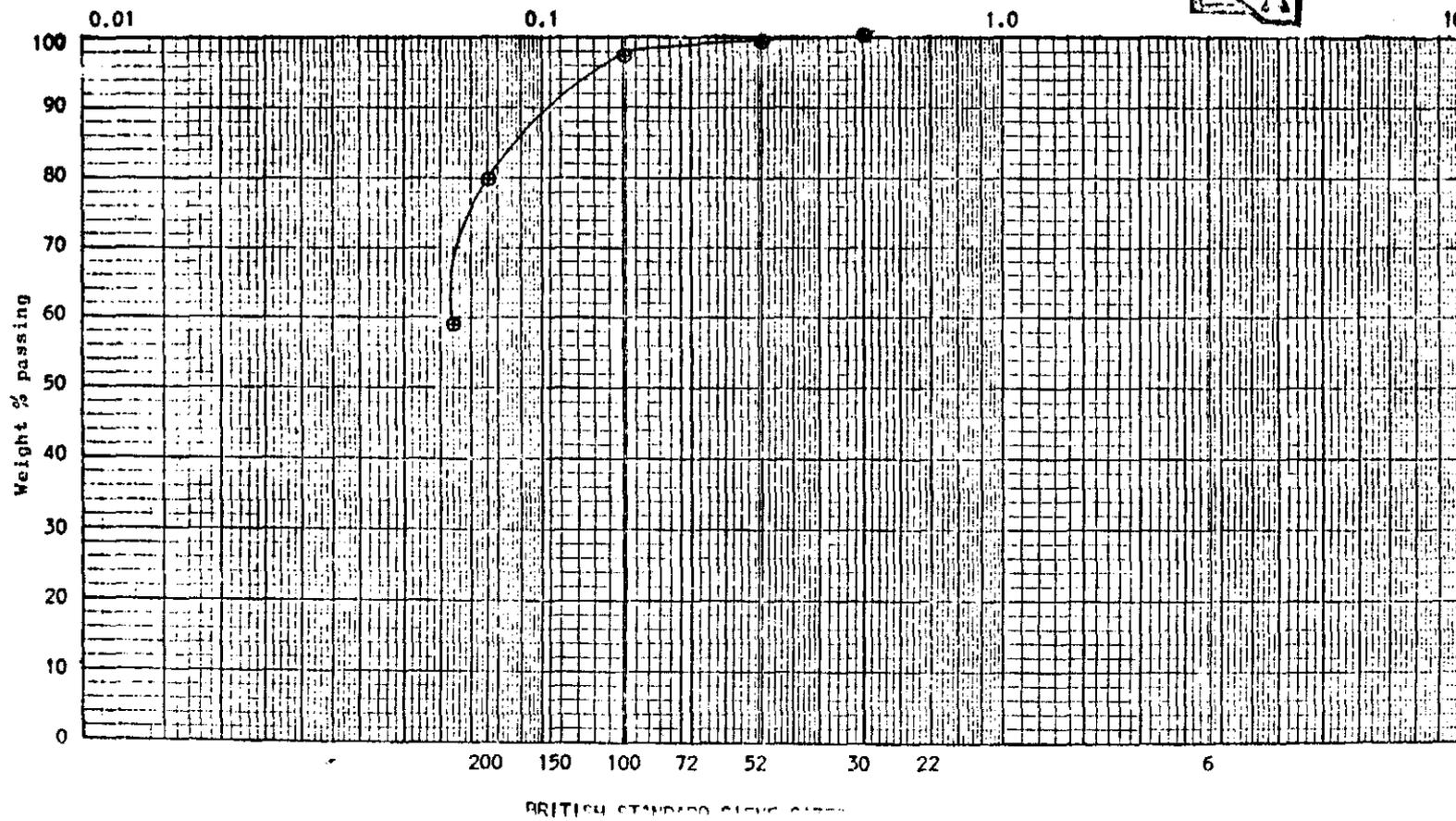
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



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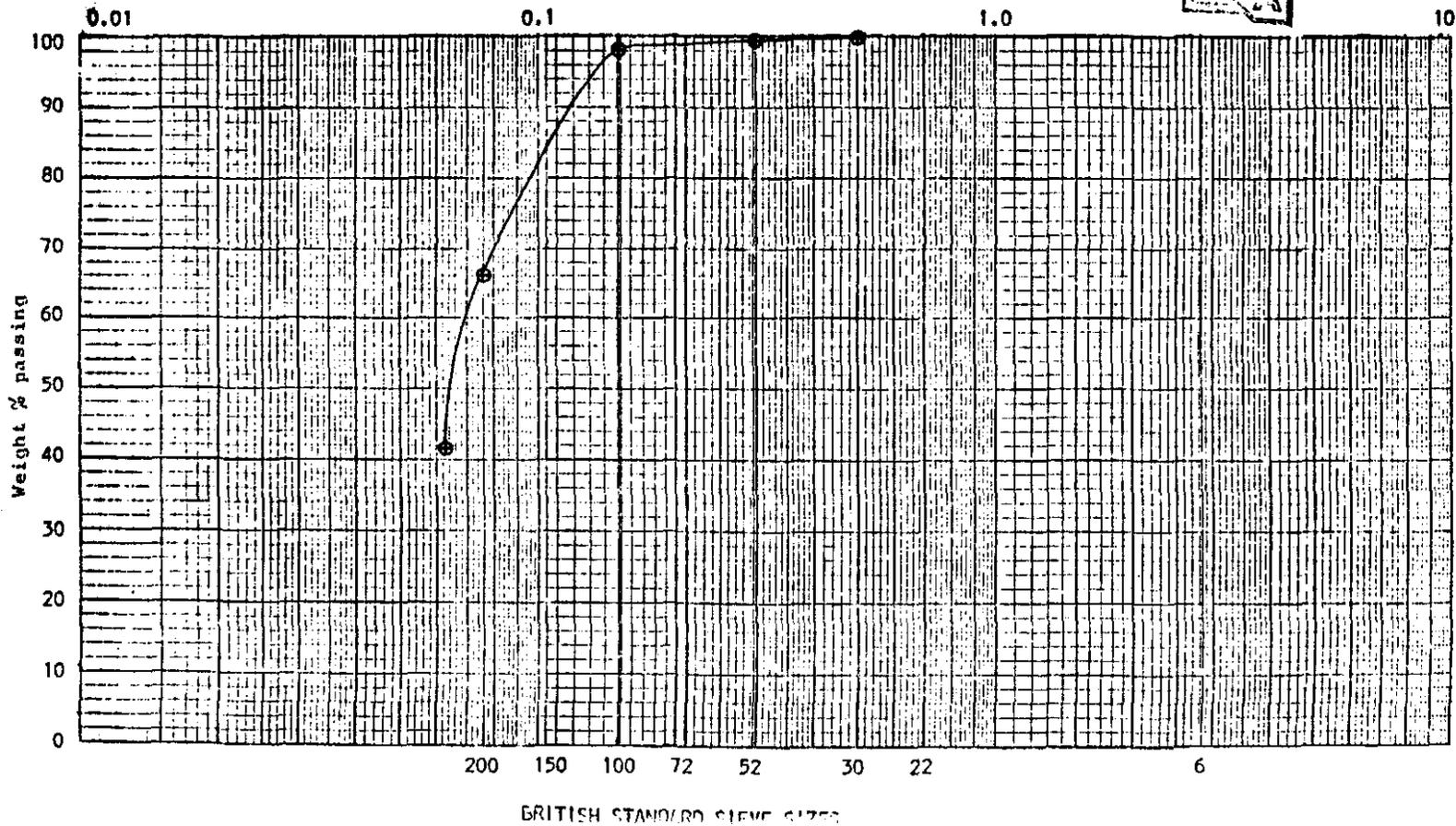
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SAMPLE NUMBER DH. 4-2..

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265014

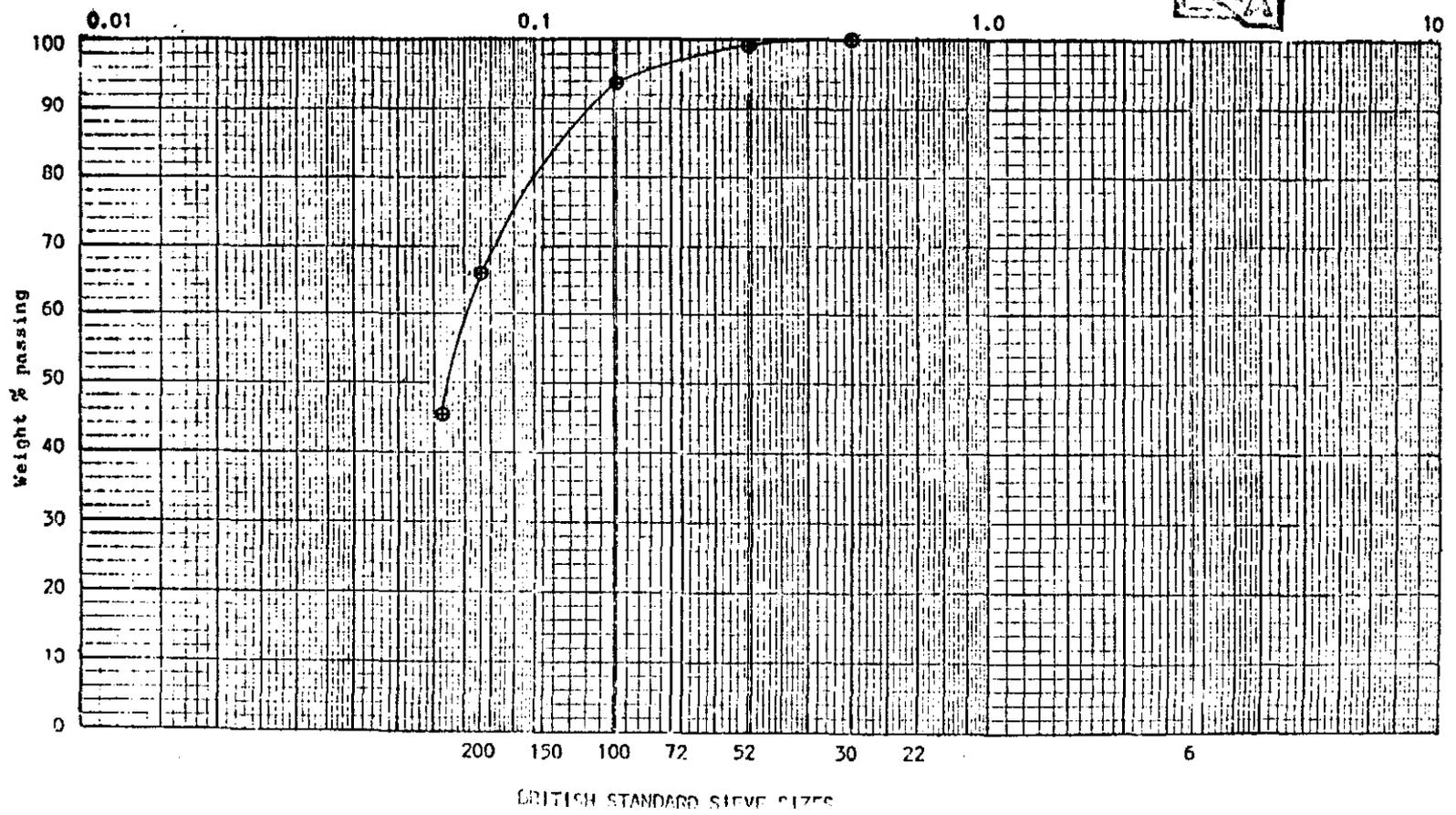
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



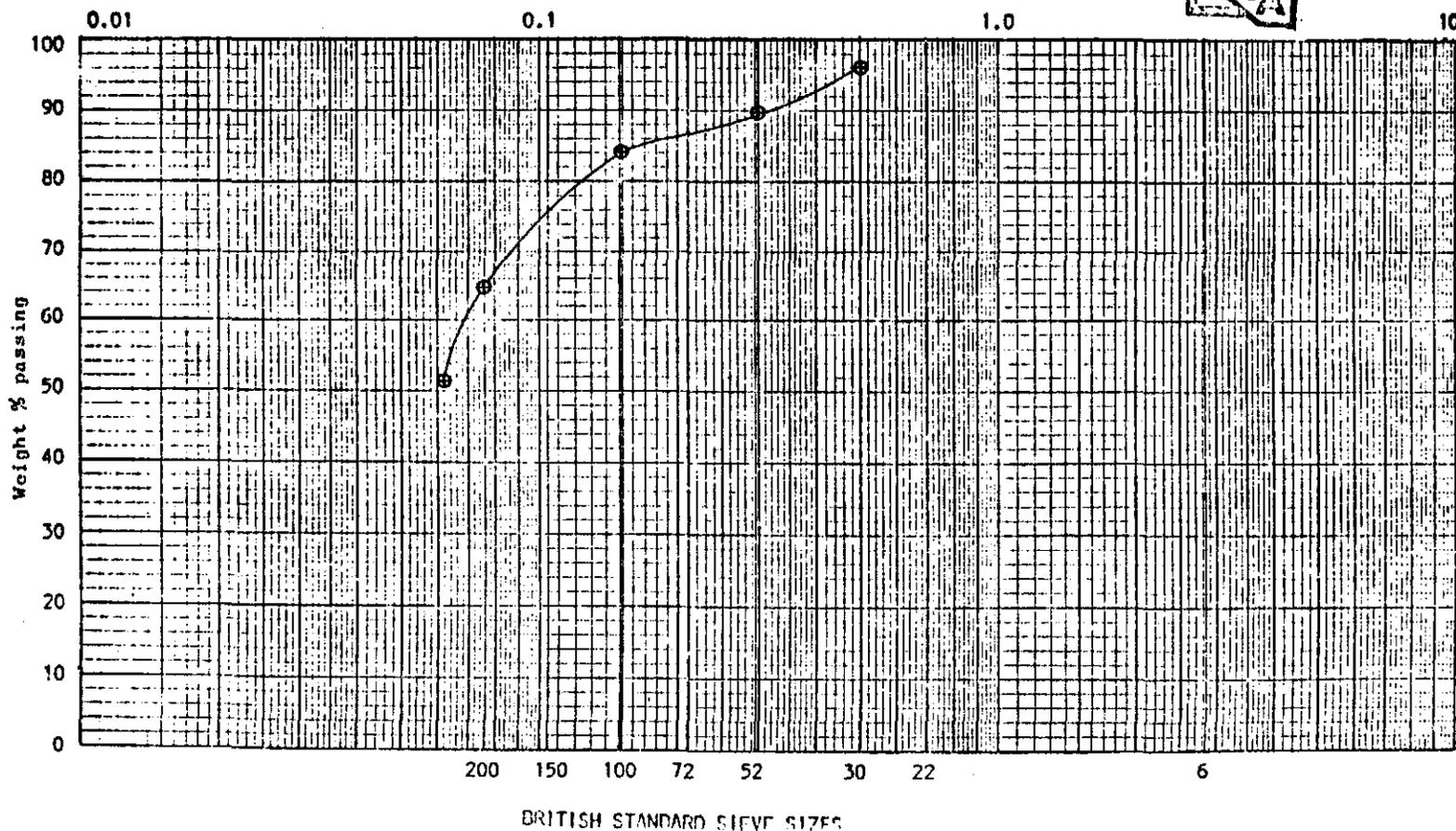
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



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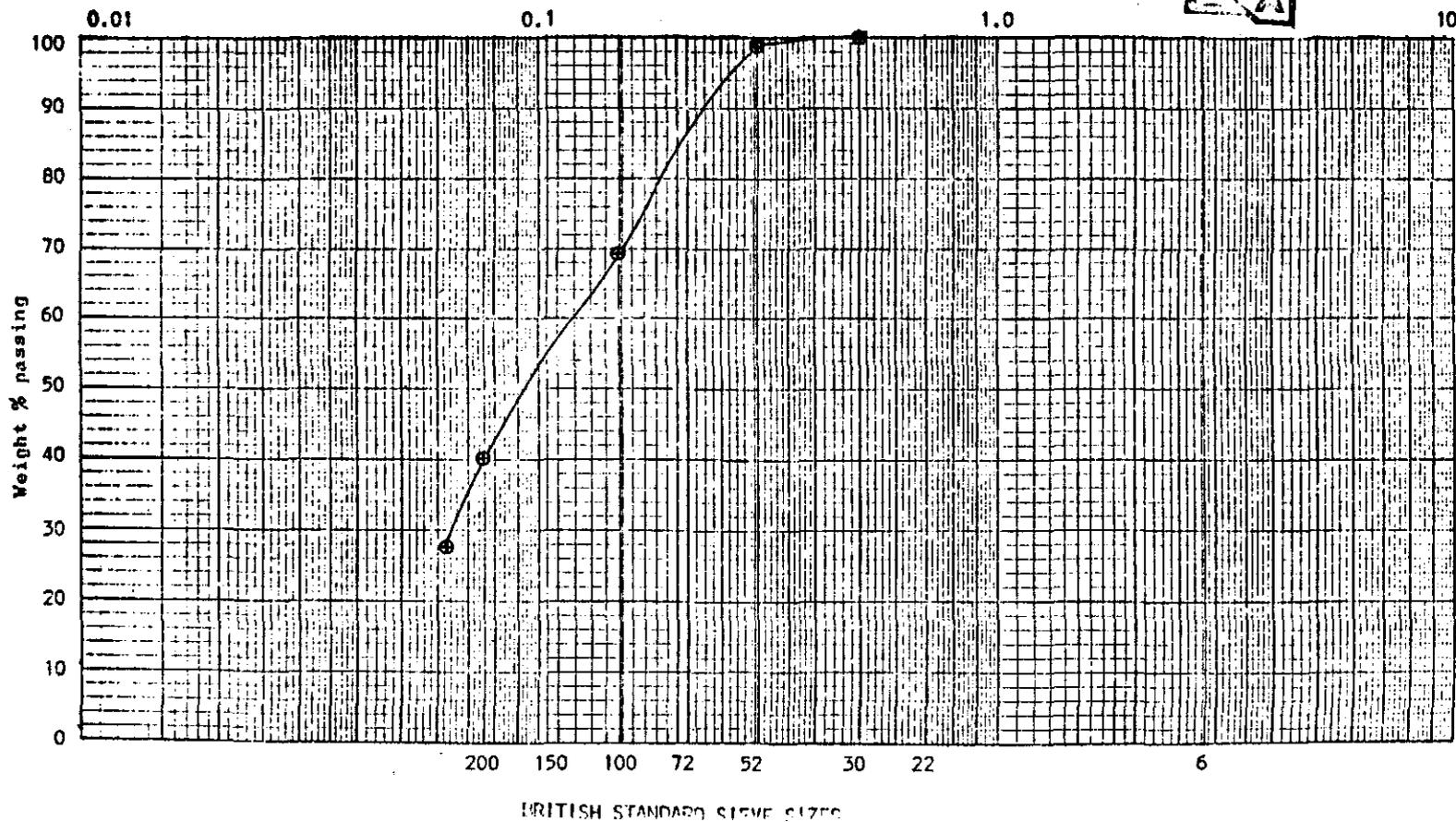
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Particle Size - mm.



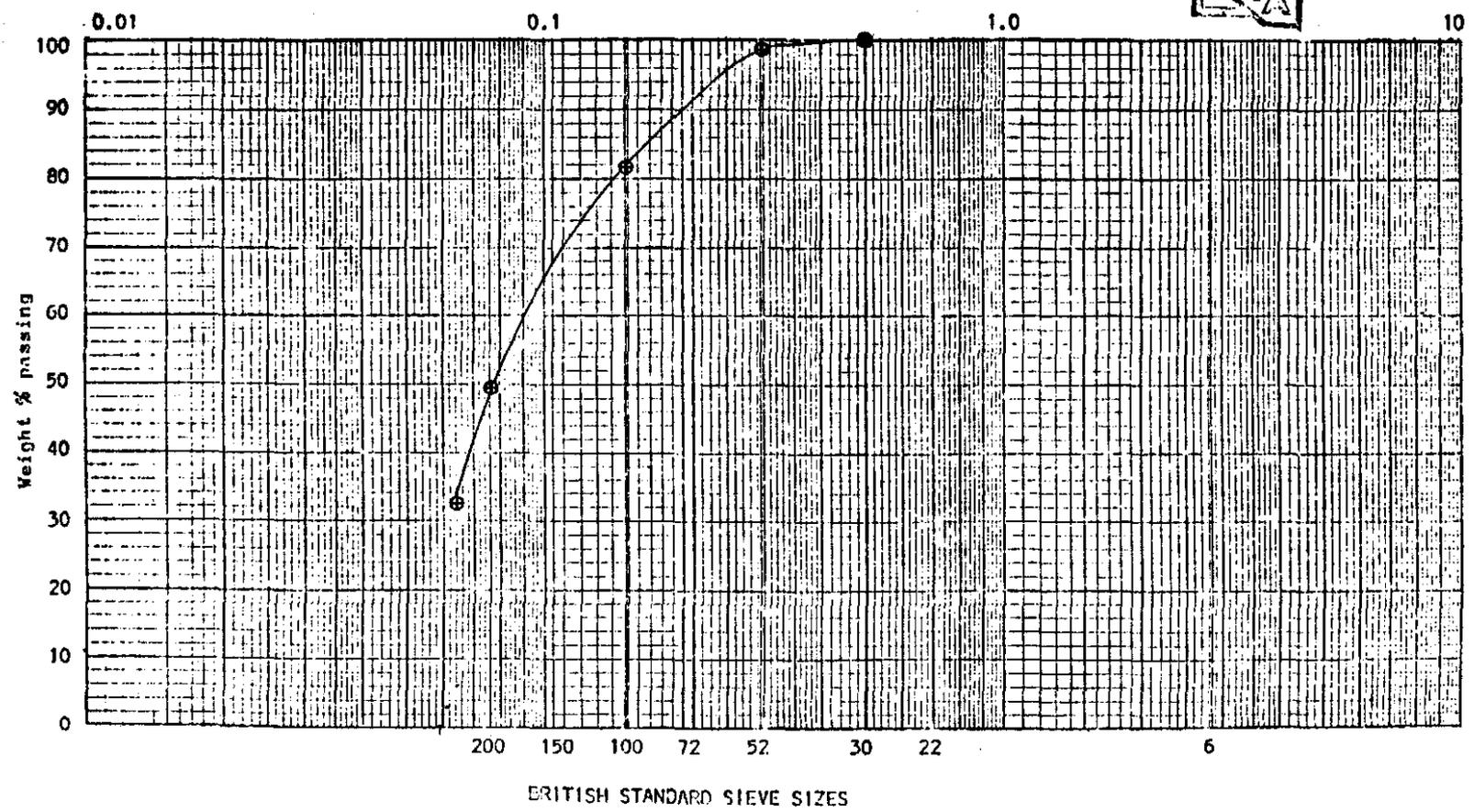
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



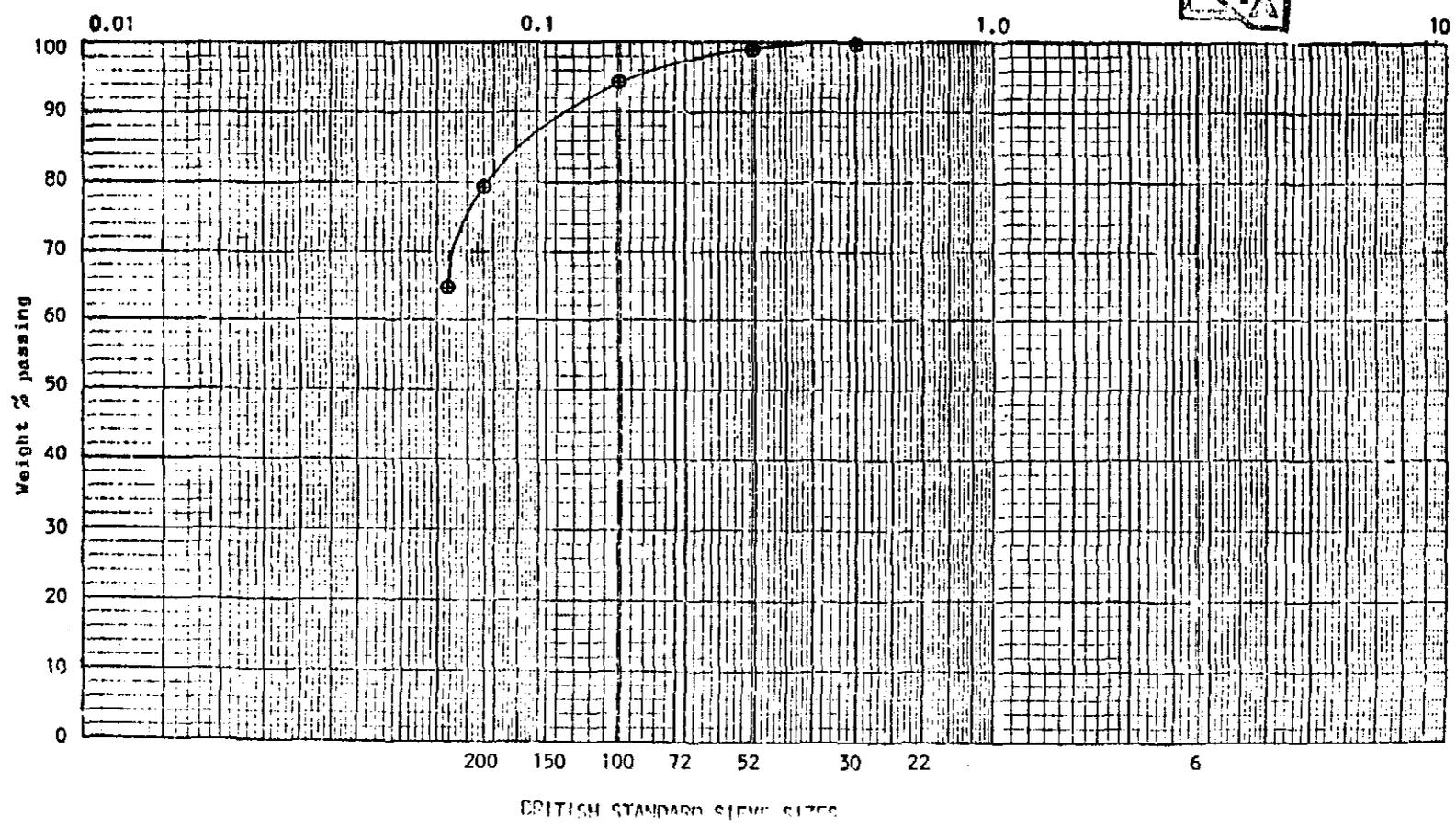
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



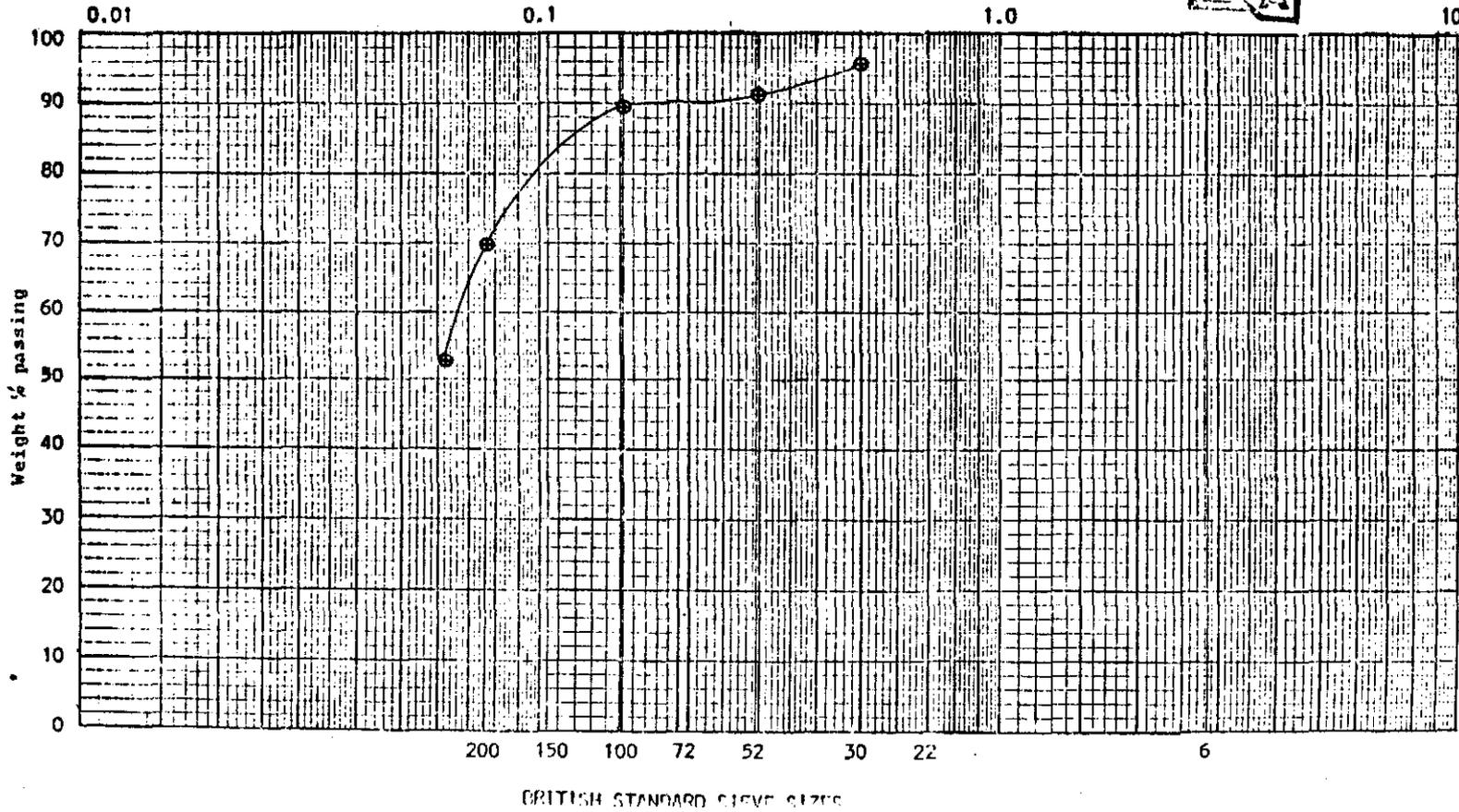
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



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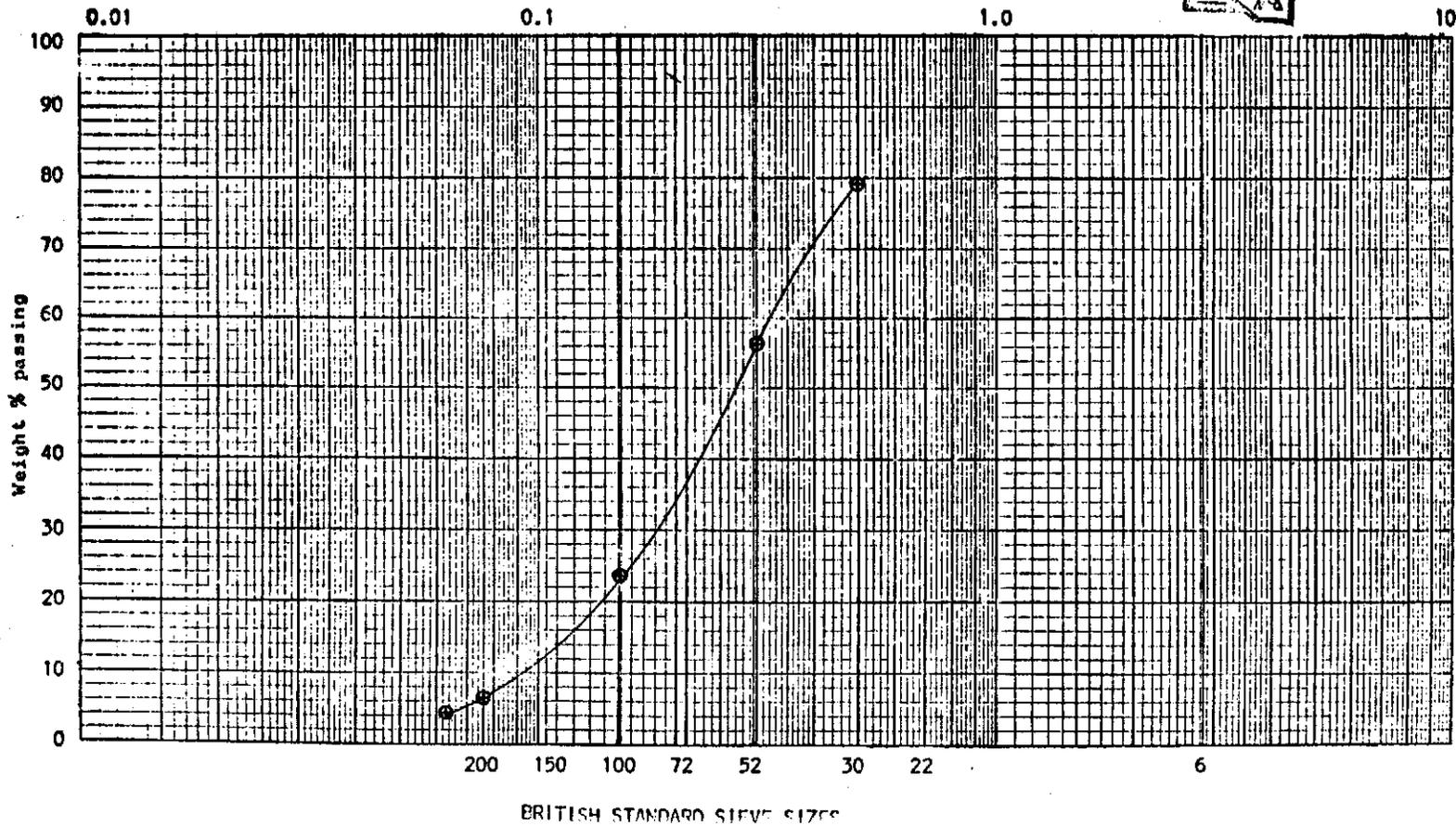
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SAMPLE NUMBER *DH...60-1*

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



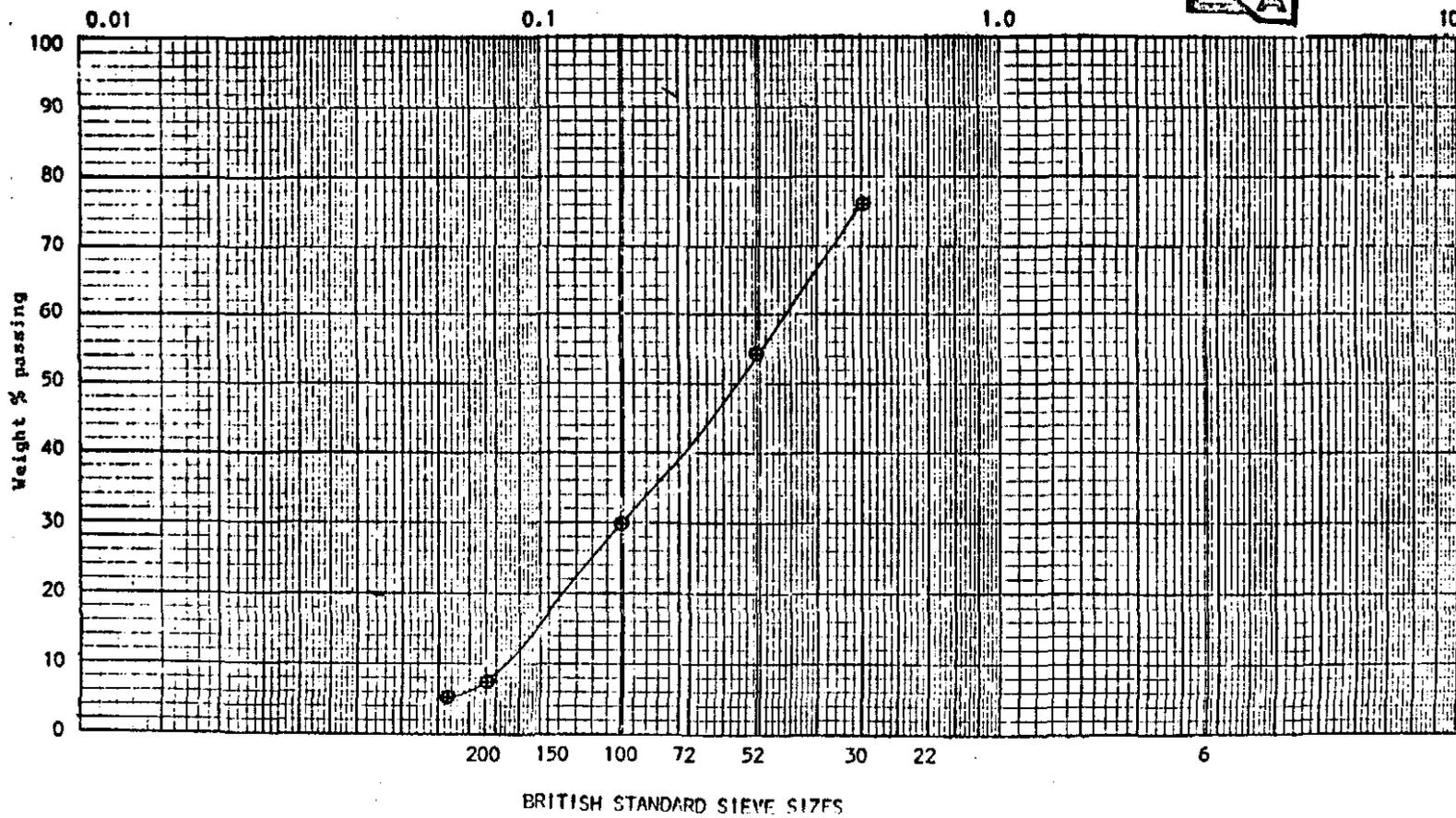
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



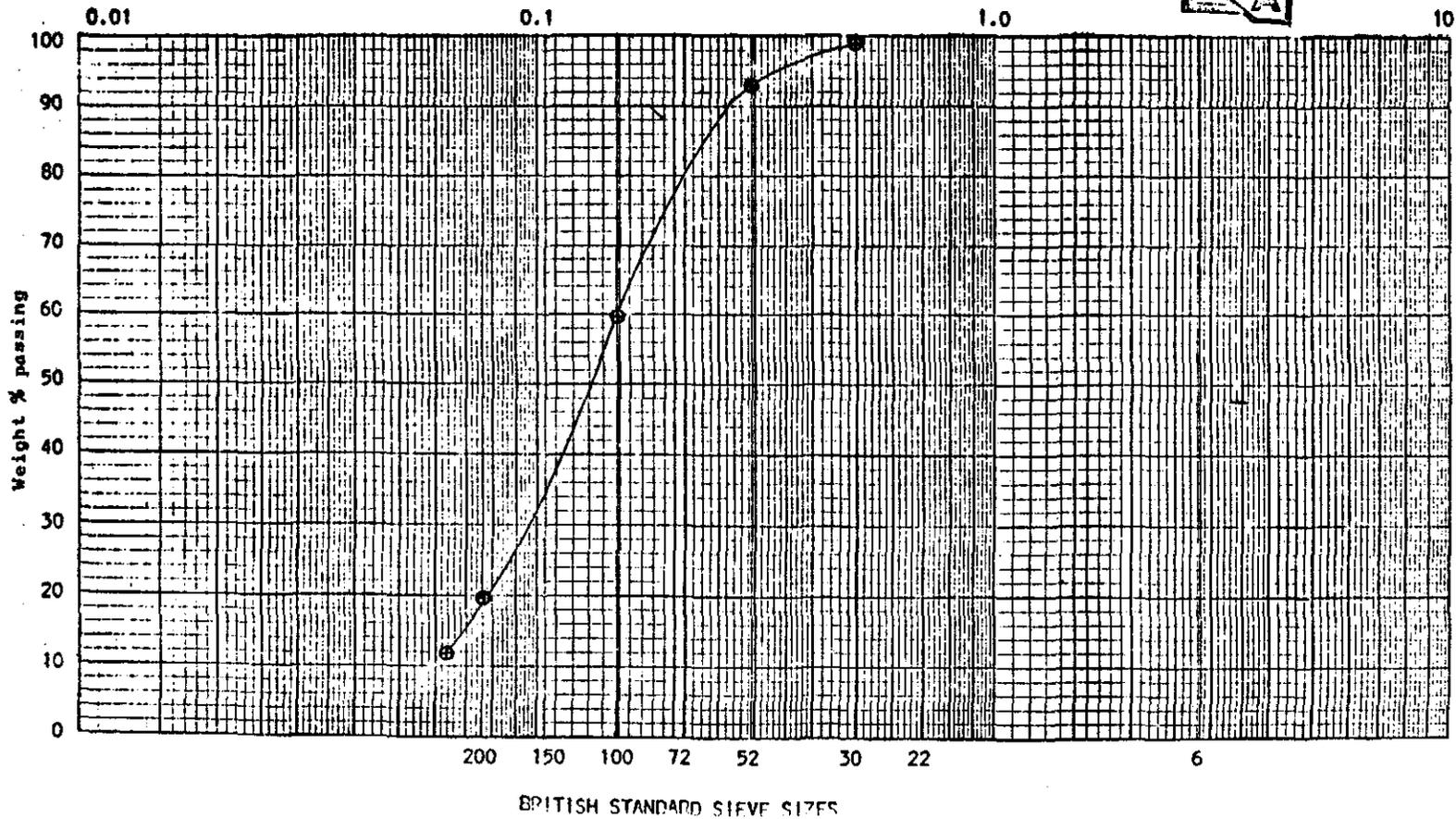
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



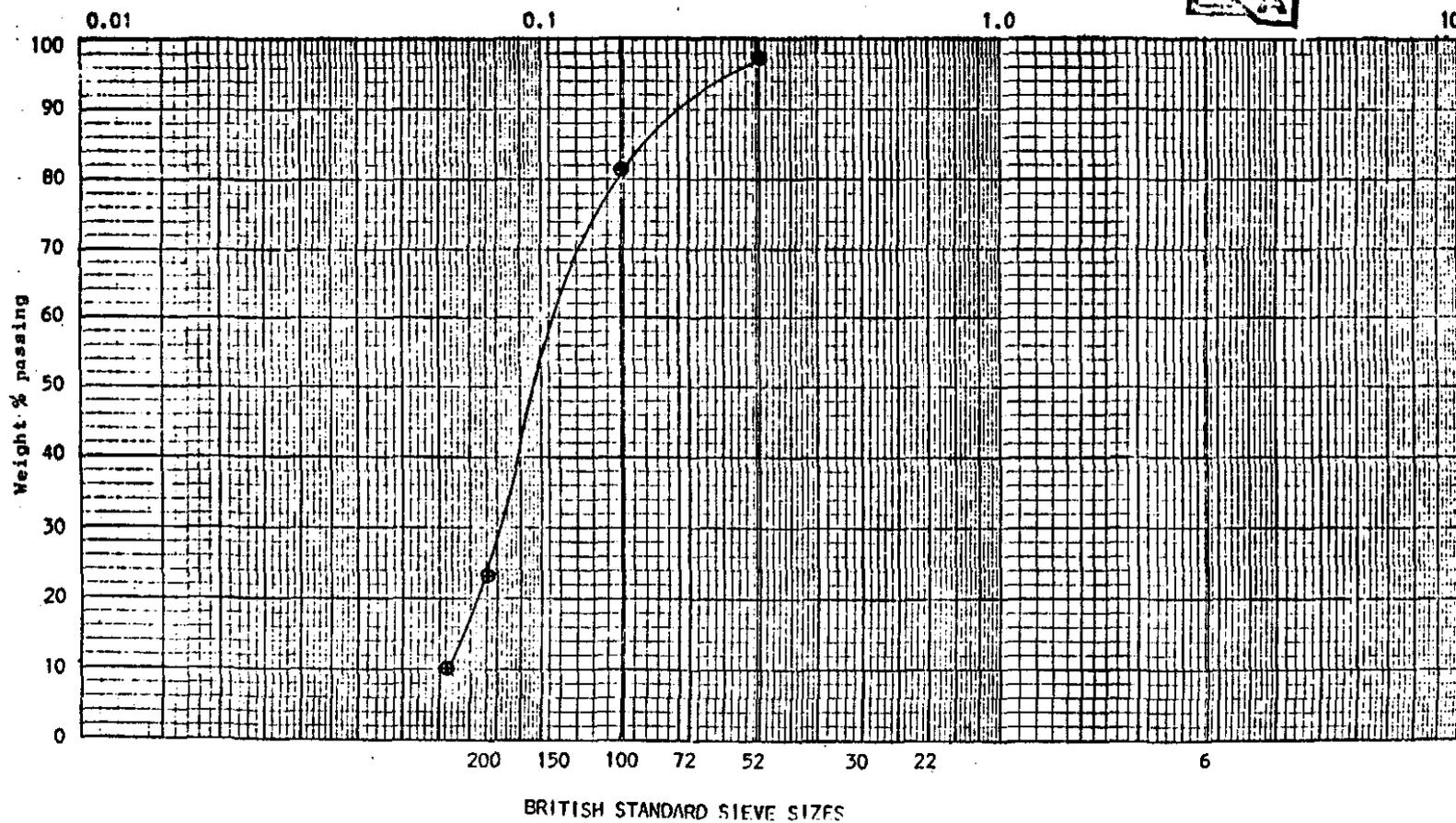
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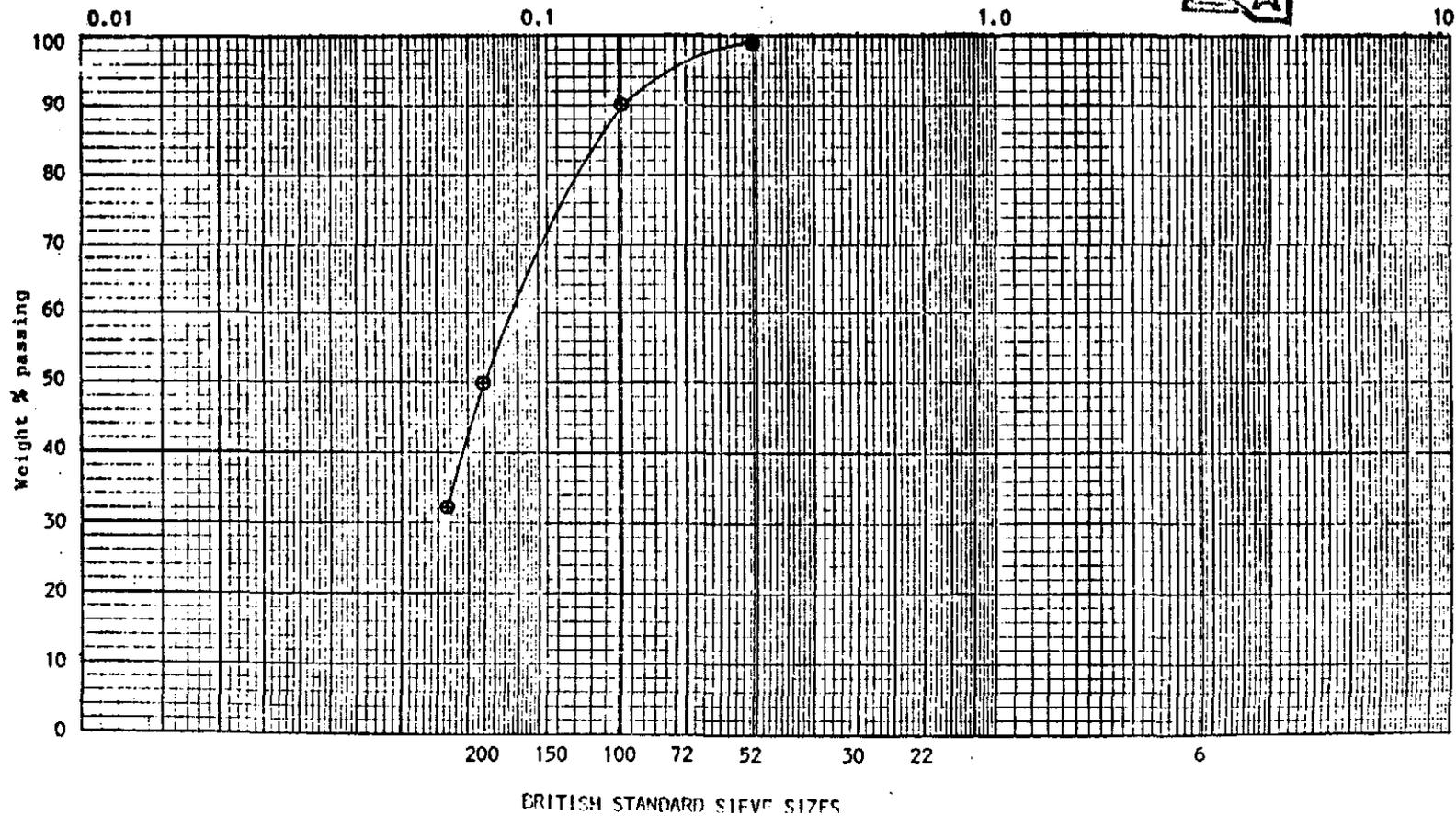
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



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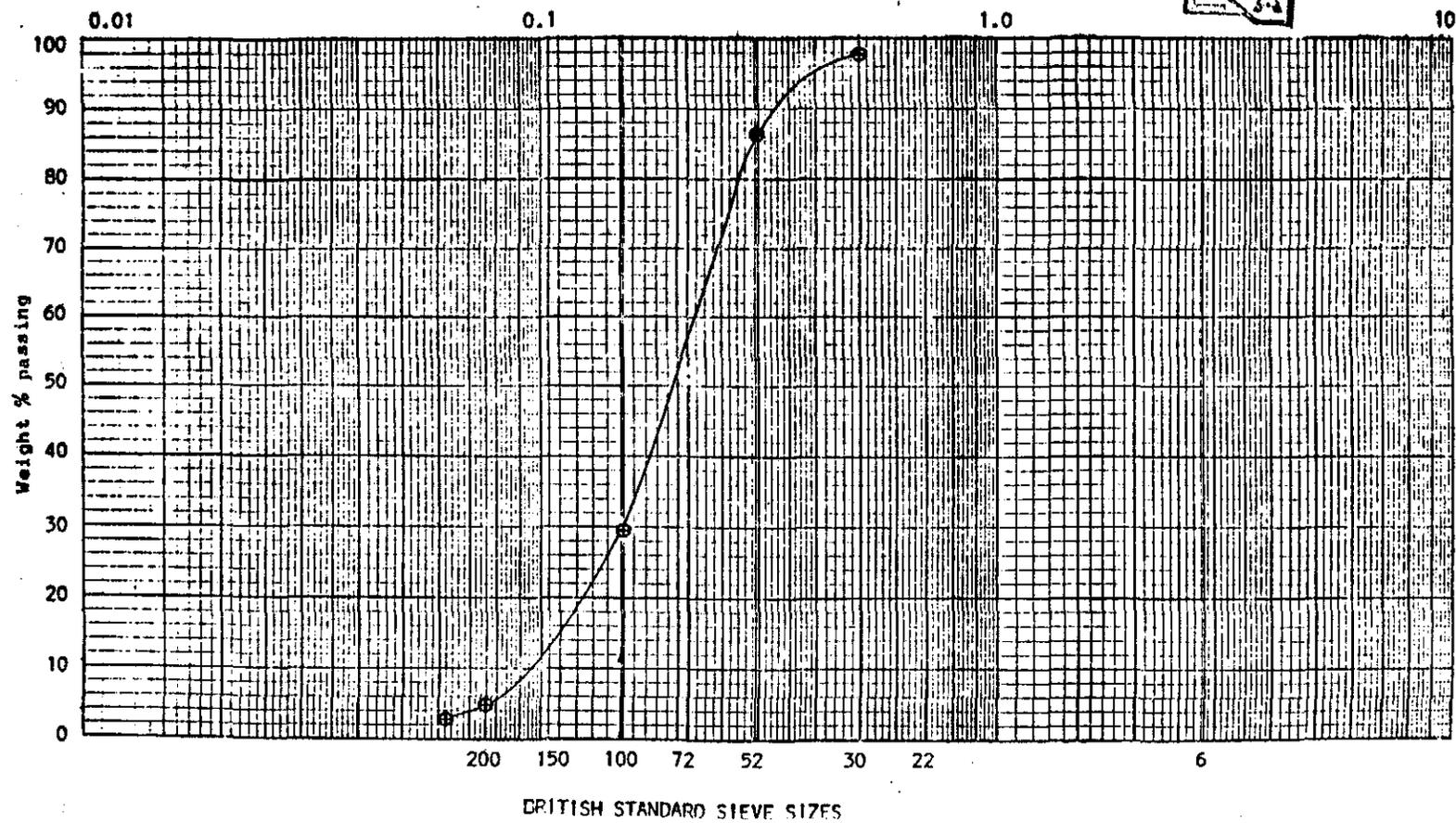
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



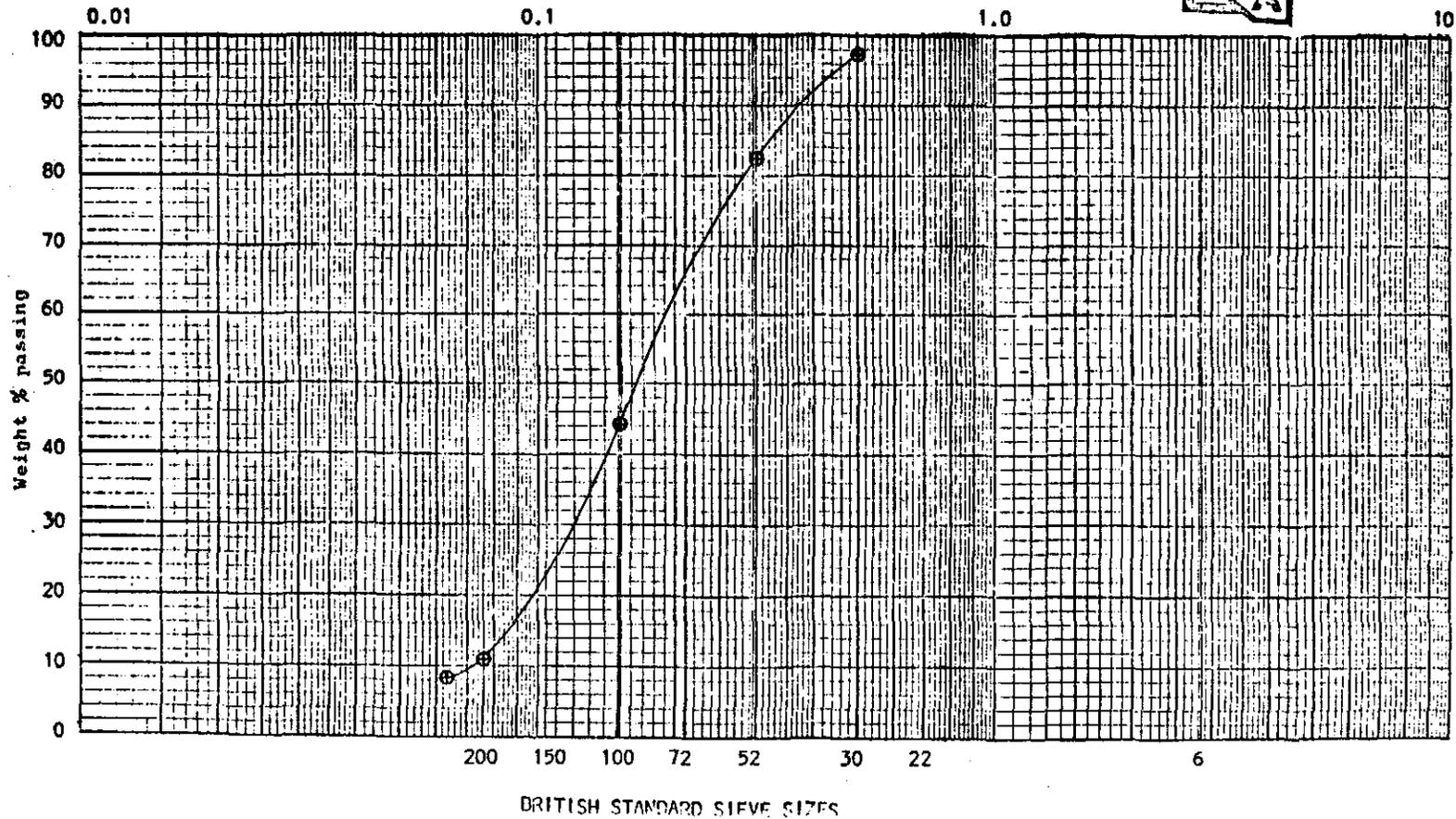
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



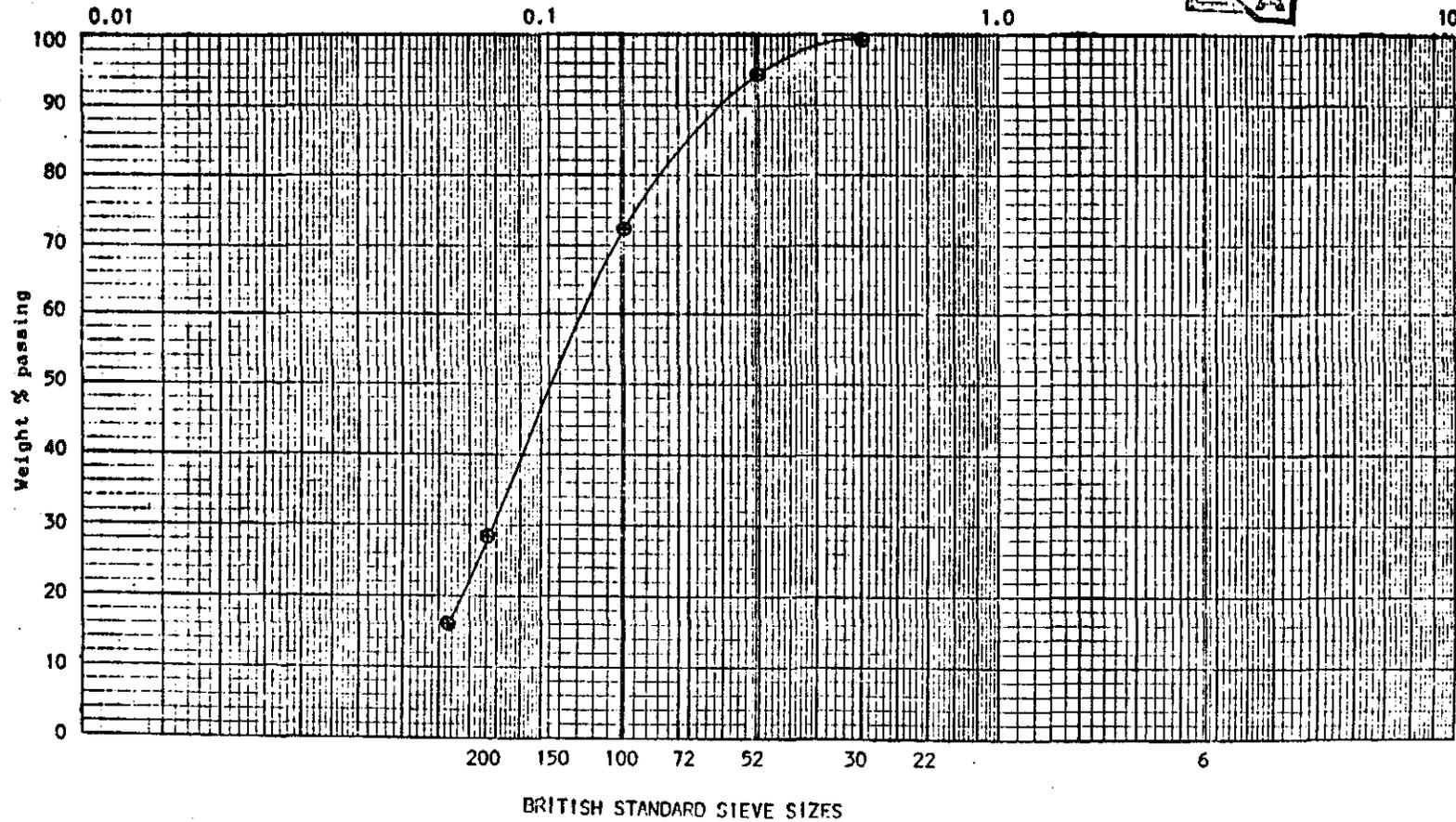
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SAMPLE NUMBER CH. 62-7.

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



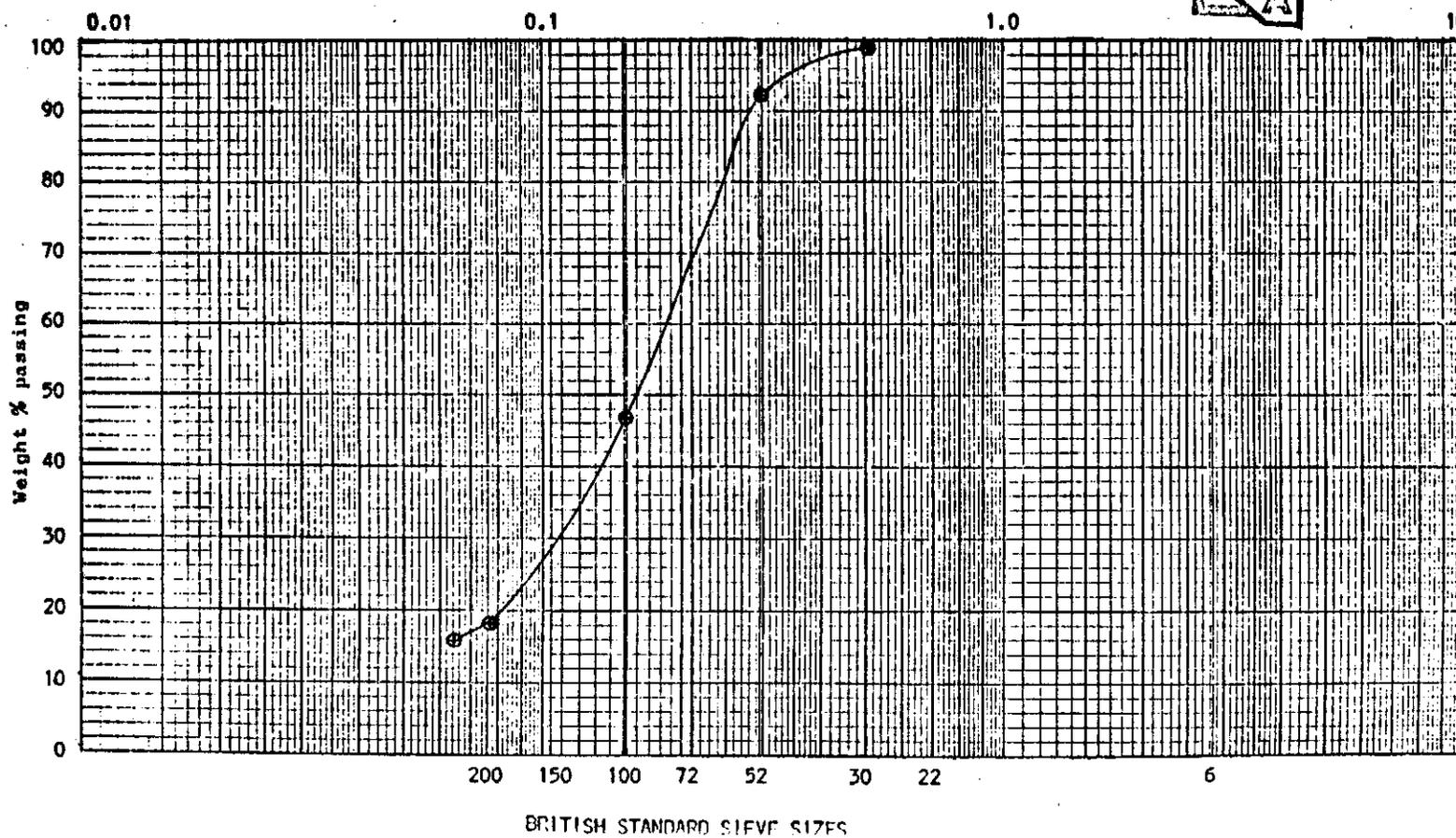
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Particle Size - mm.



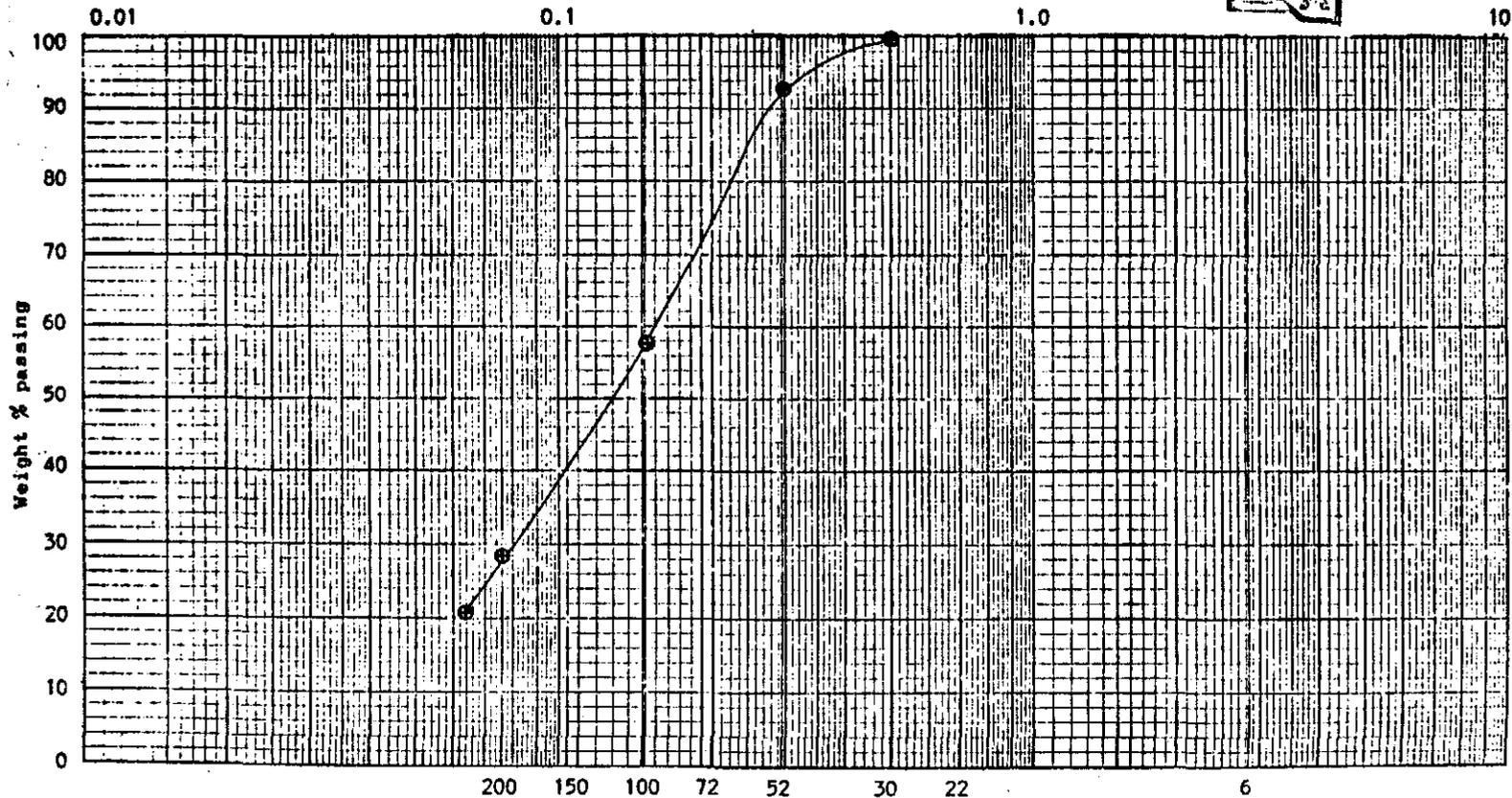
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



BRITISH STANDARD SIEVE SIZES

265030

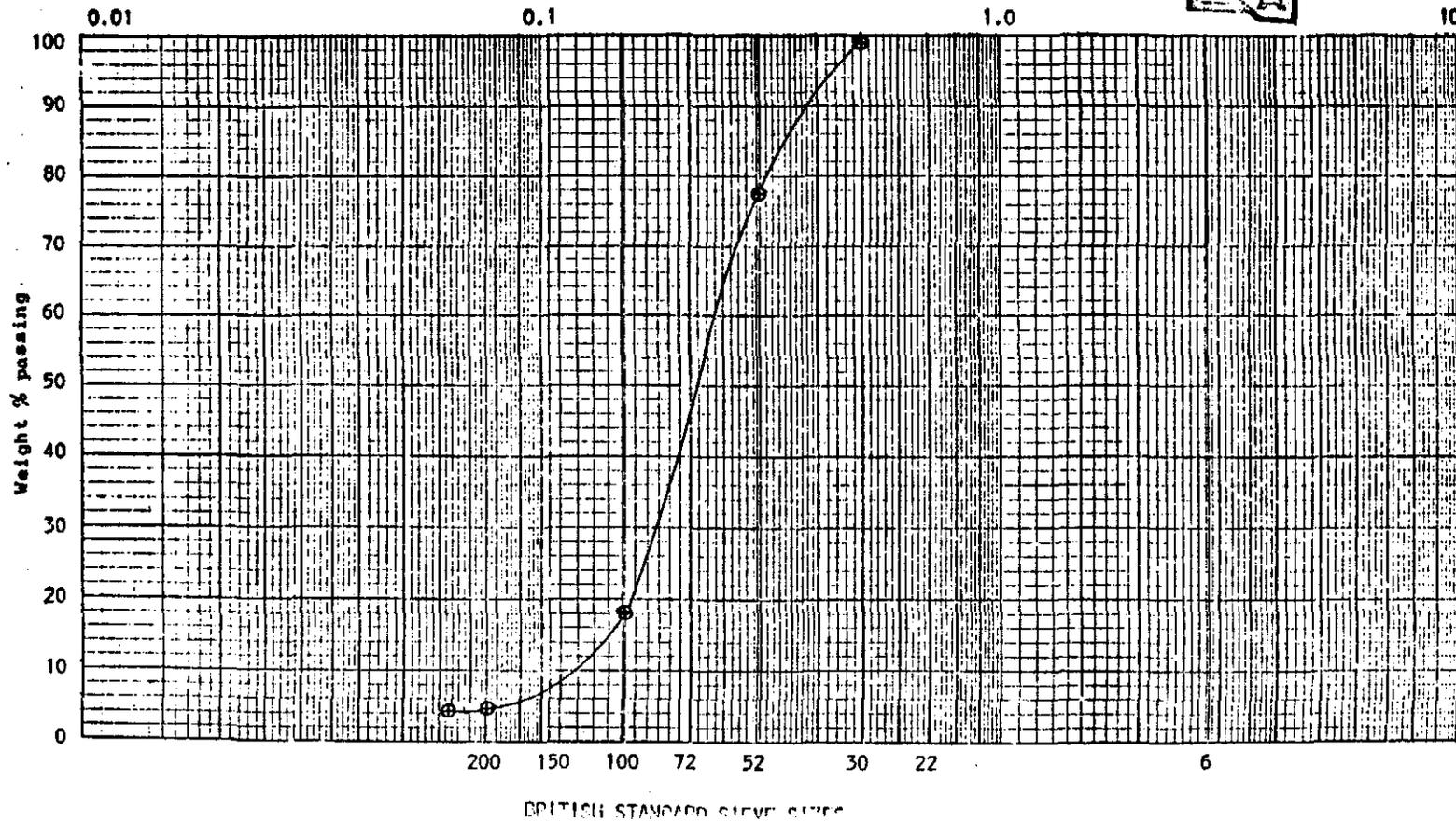
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SAMPLE NUMBER : DH. 6A-2

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



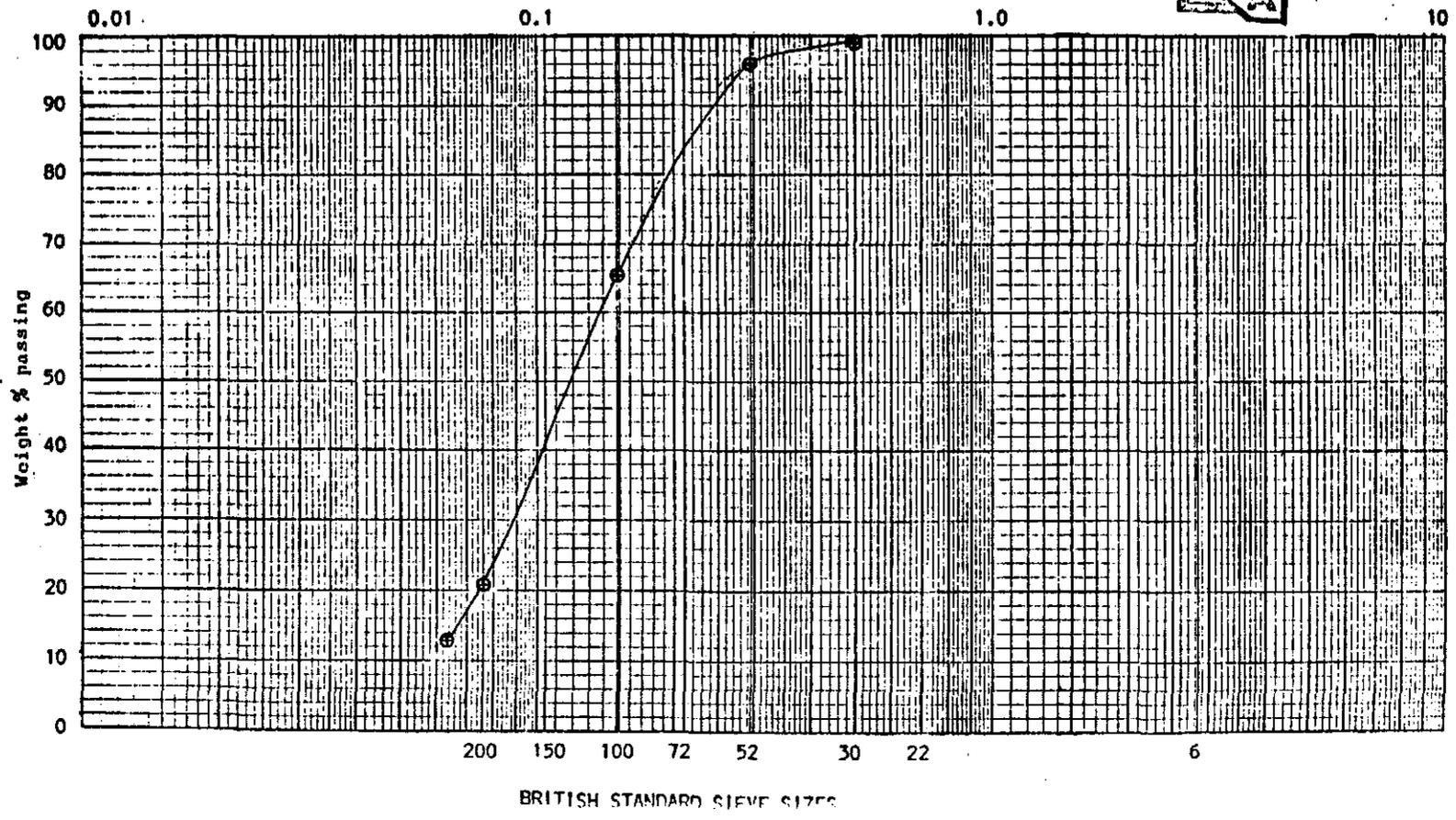
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Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265032

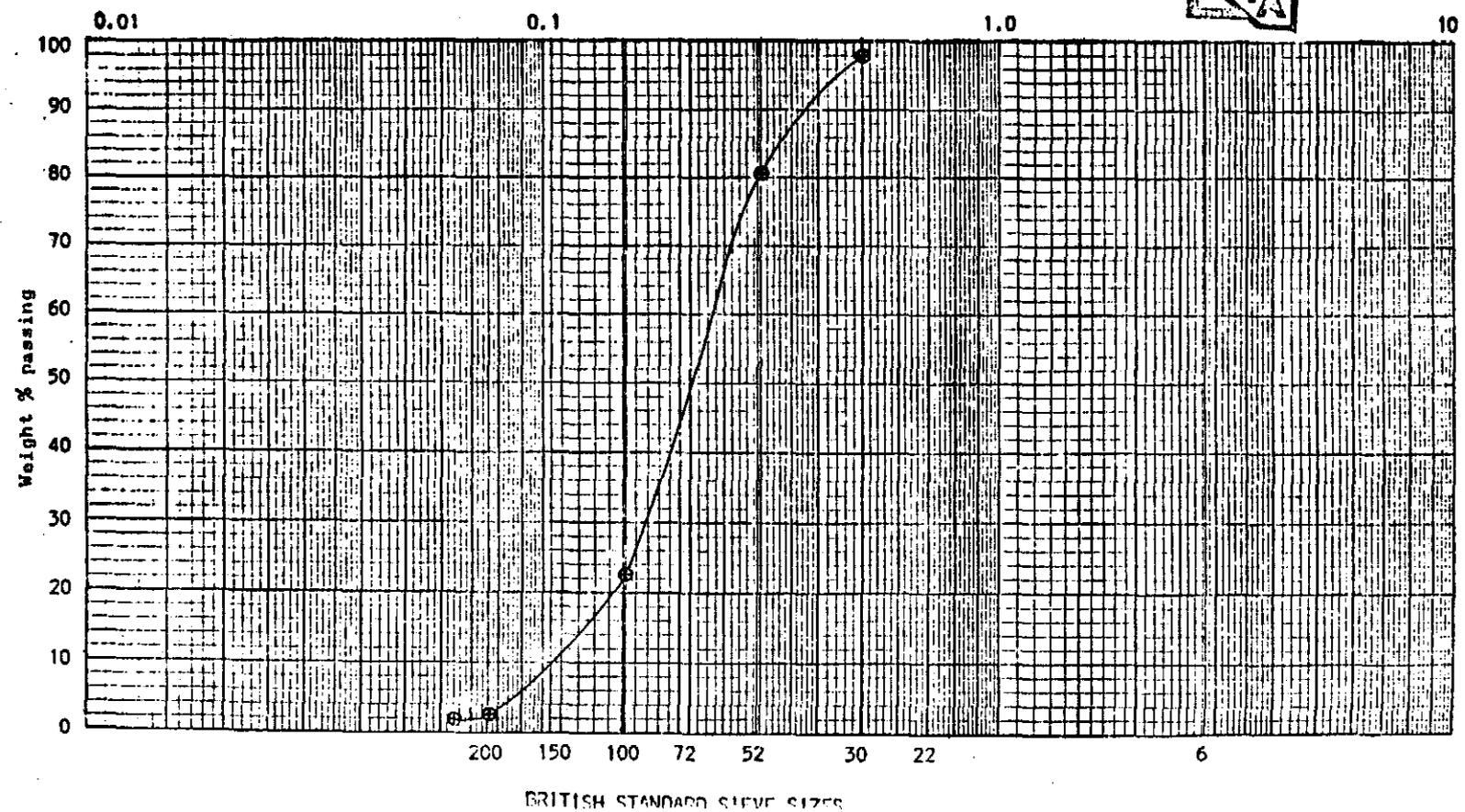
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SAMPLE NUMBER *RM. 545-2*

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265033

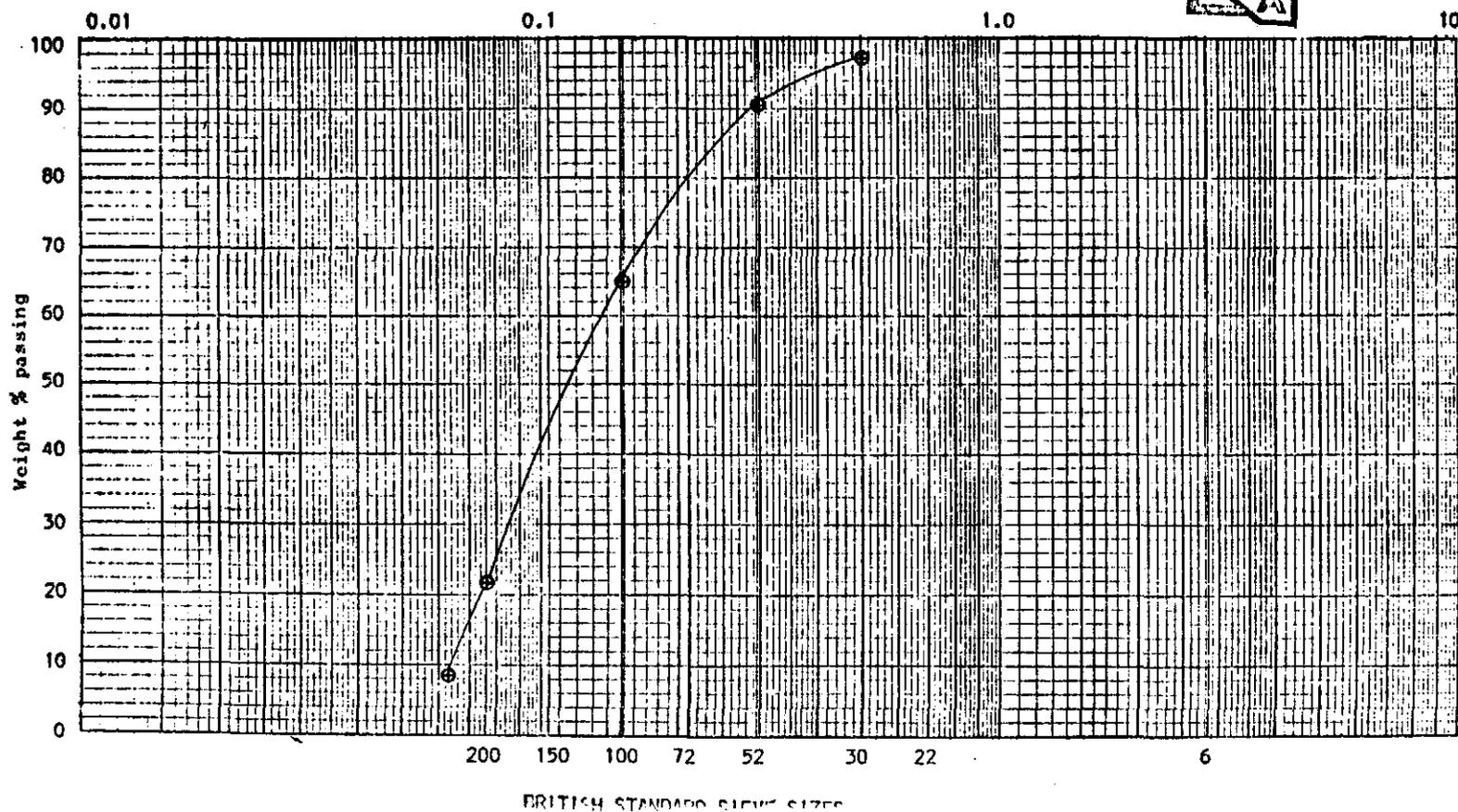
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PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER DH. 65-3

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265034

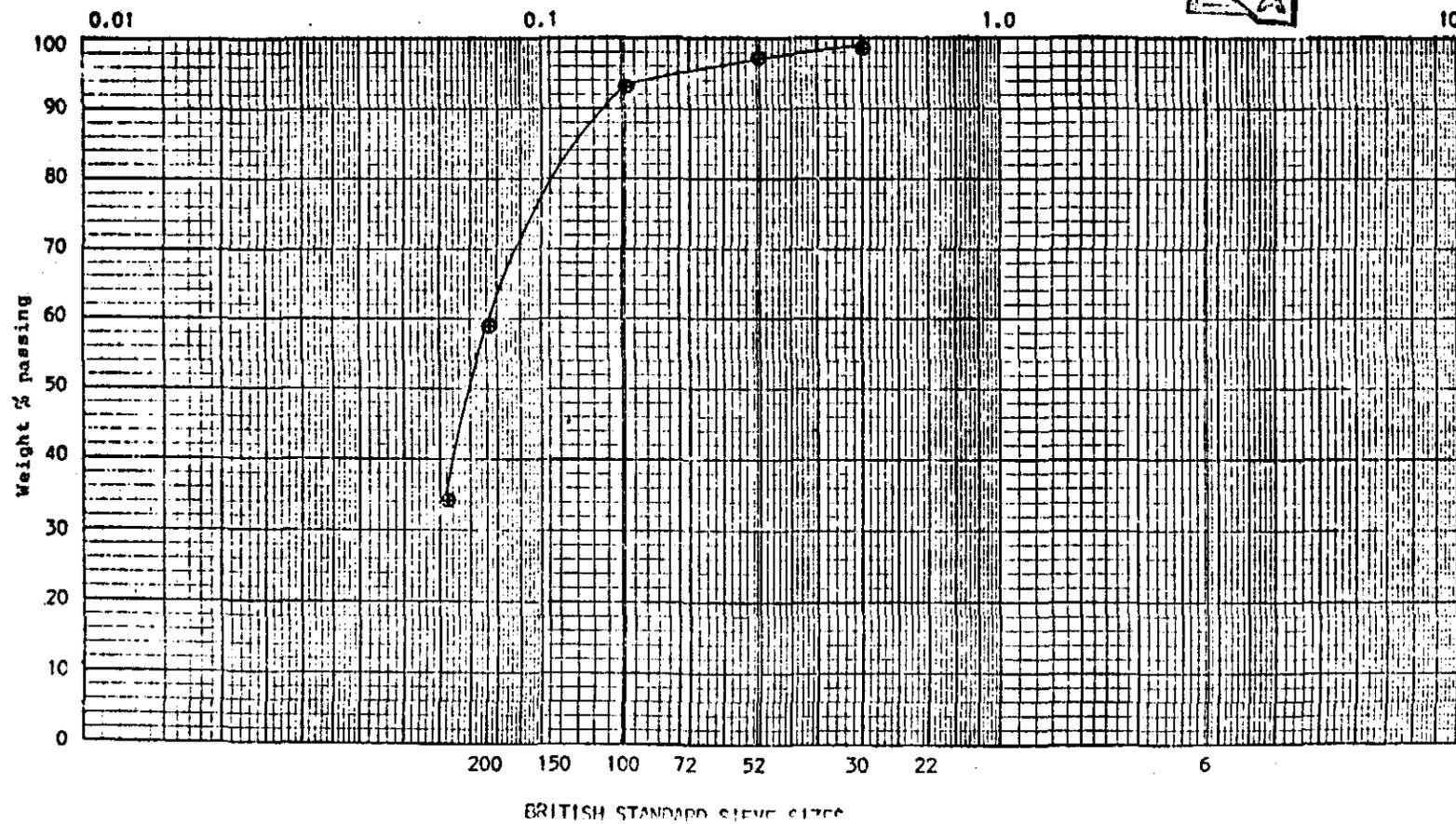
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PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER DH 65-4

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265035

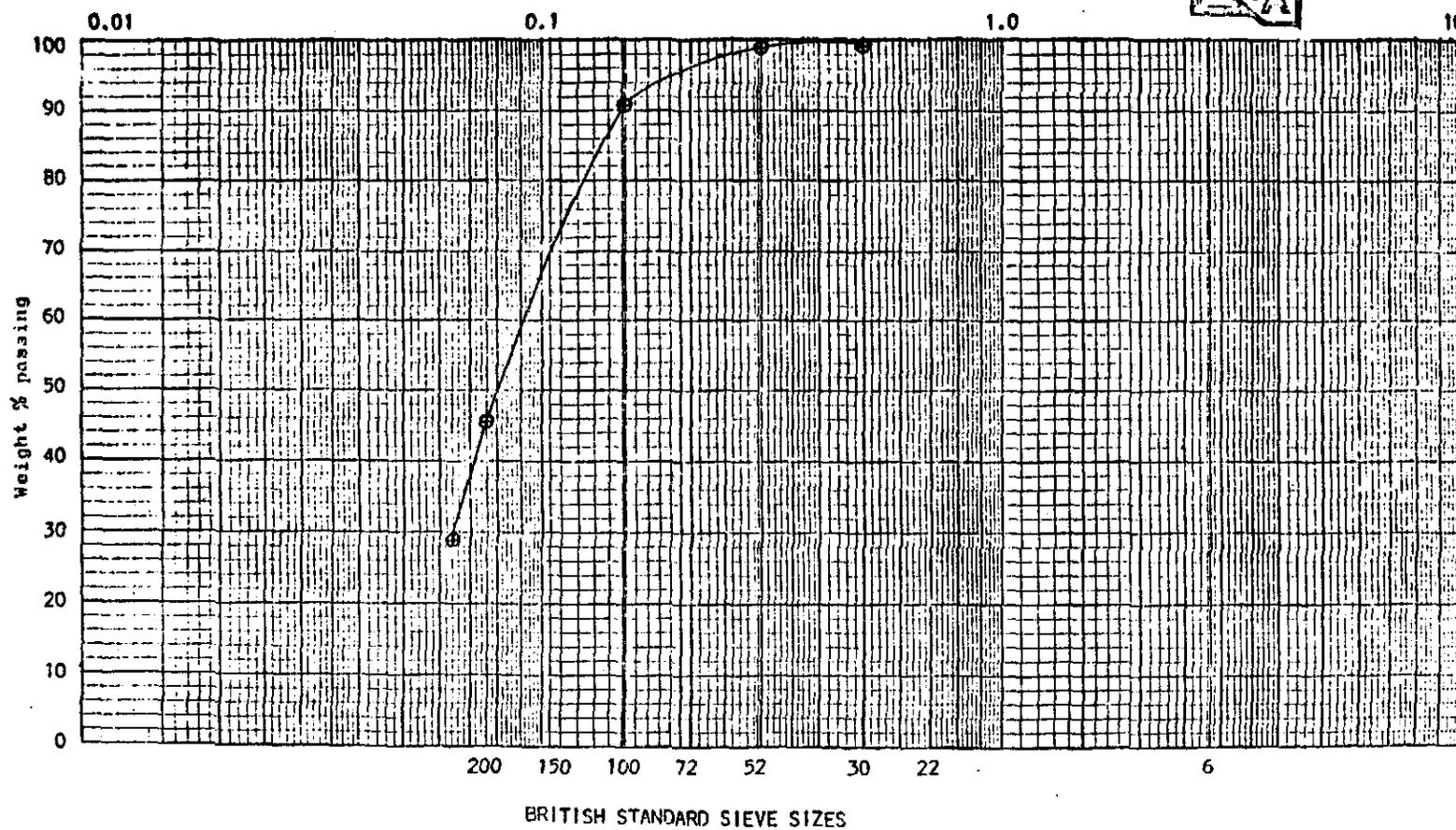
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PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER PH. 66-1.

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265036

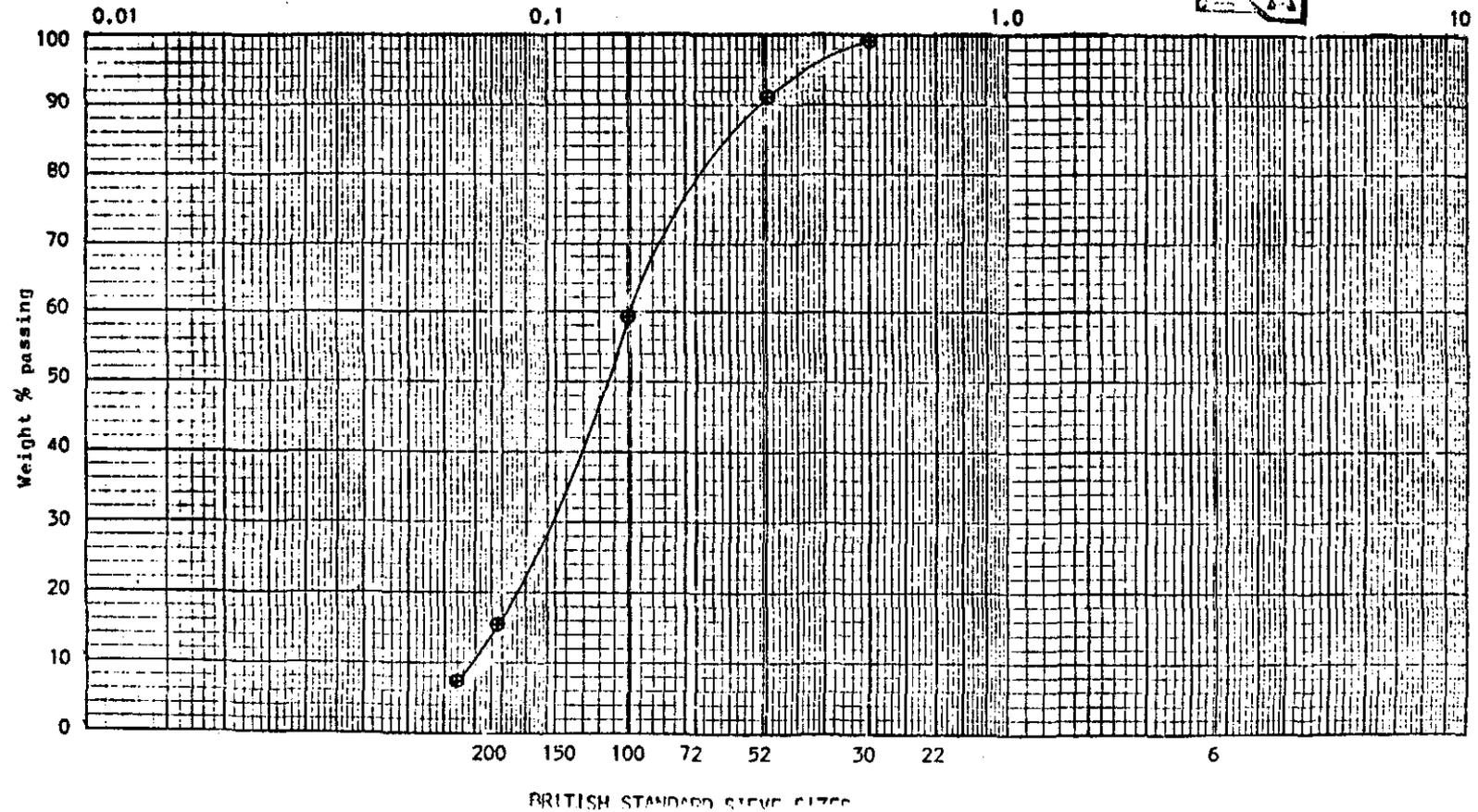
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PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER OH. 66-2.

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265037

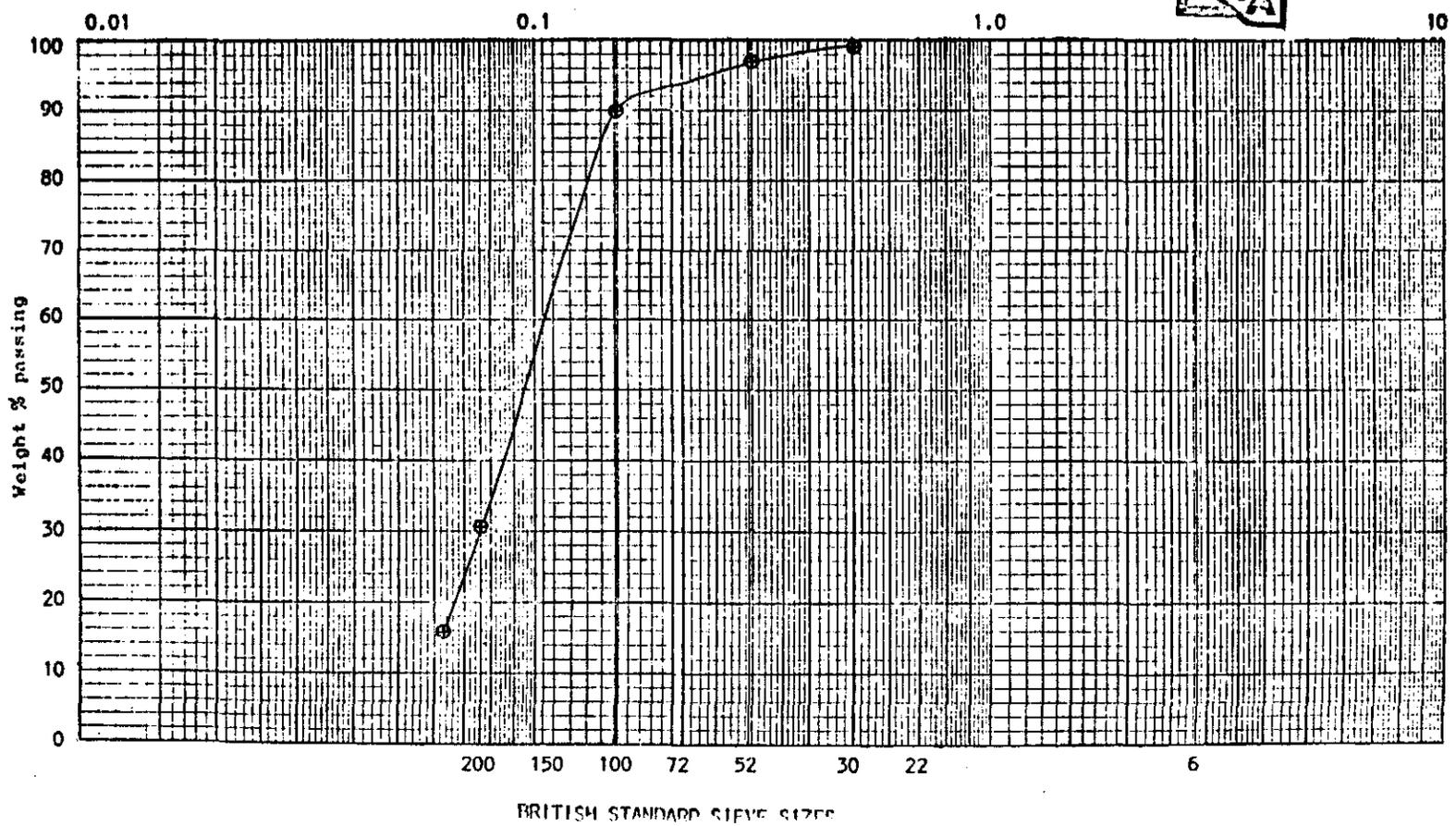
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PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER DH. 66-3

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



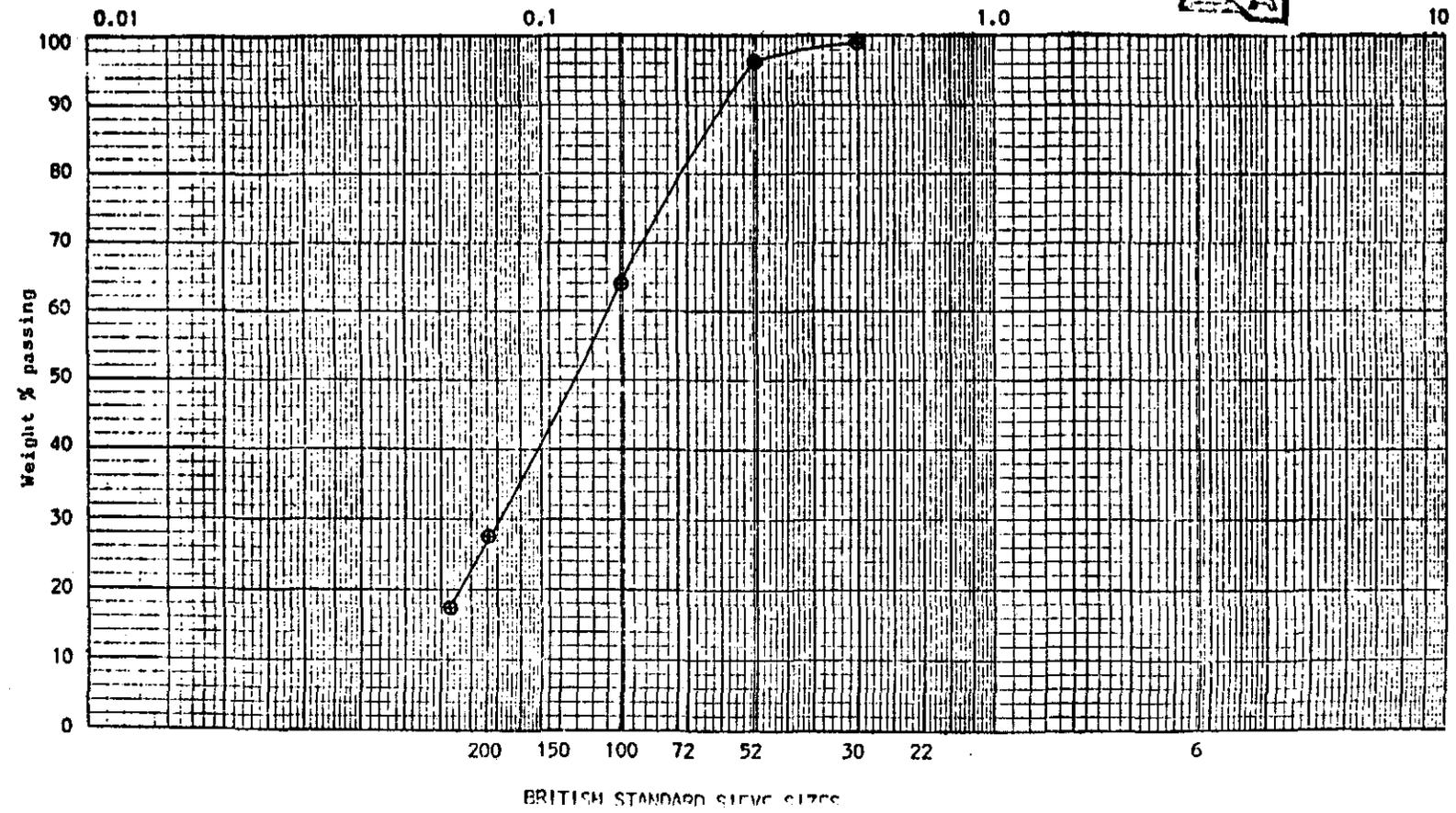
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PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER DH. 67-1

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265039

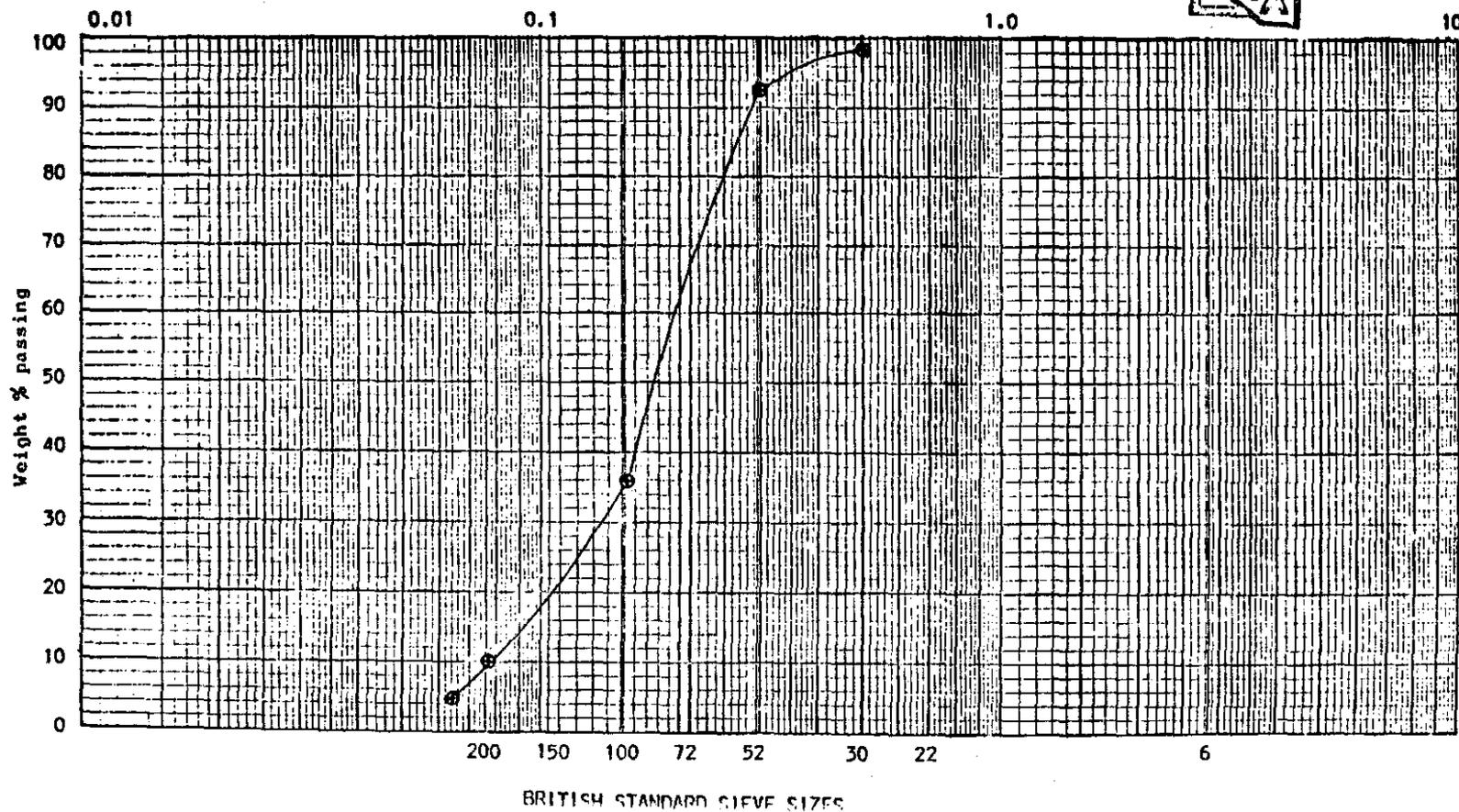
039

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER *DM.47-2*

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265040

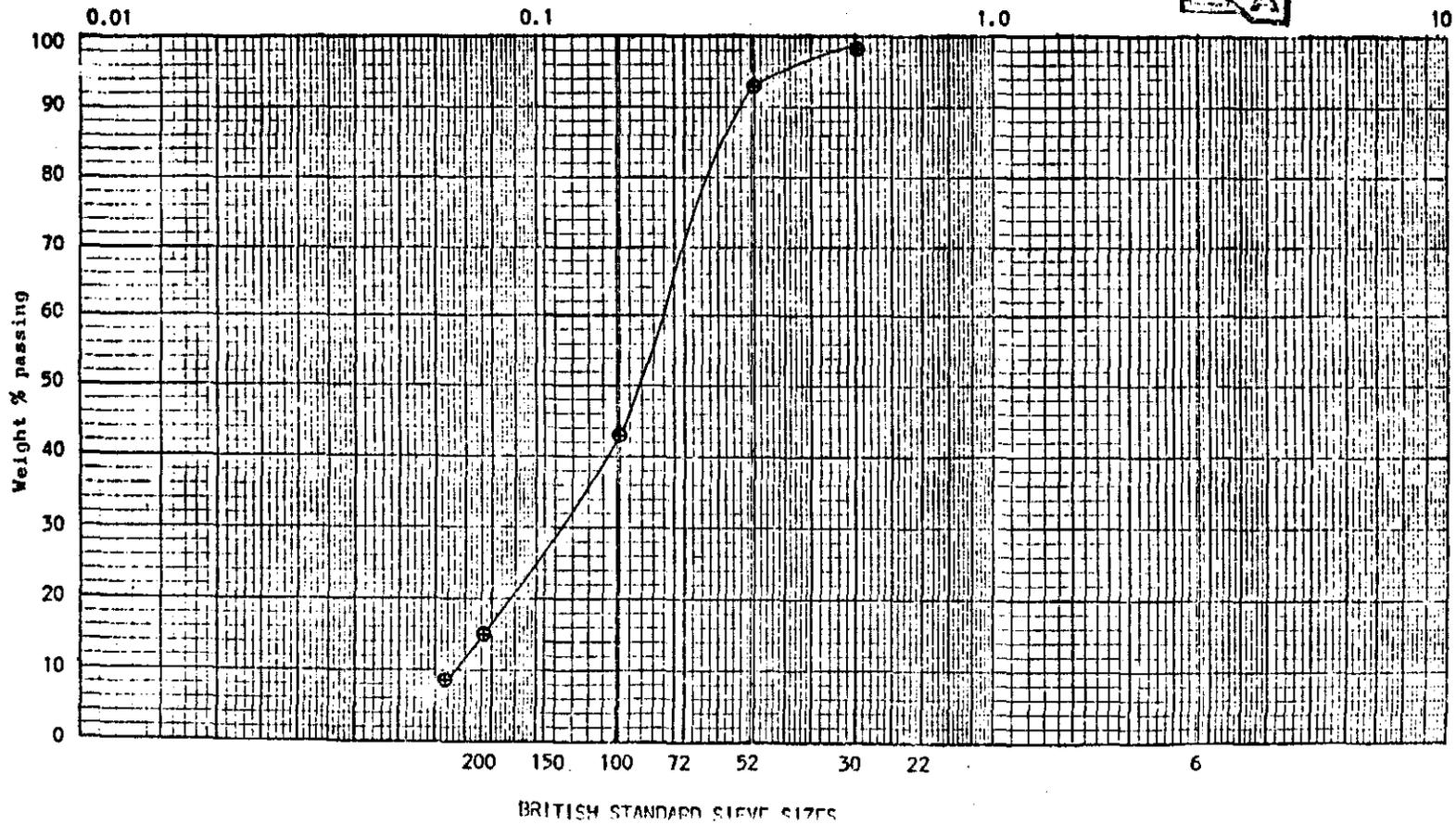
040

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER .DH...67-3

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265041

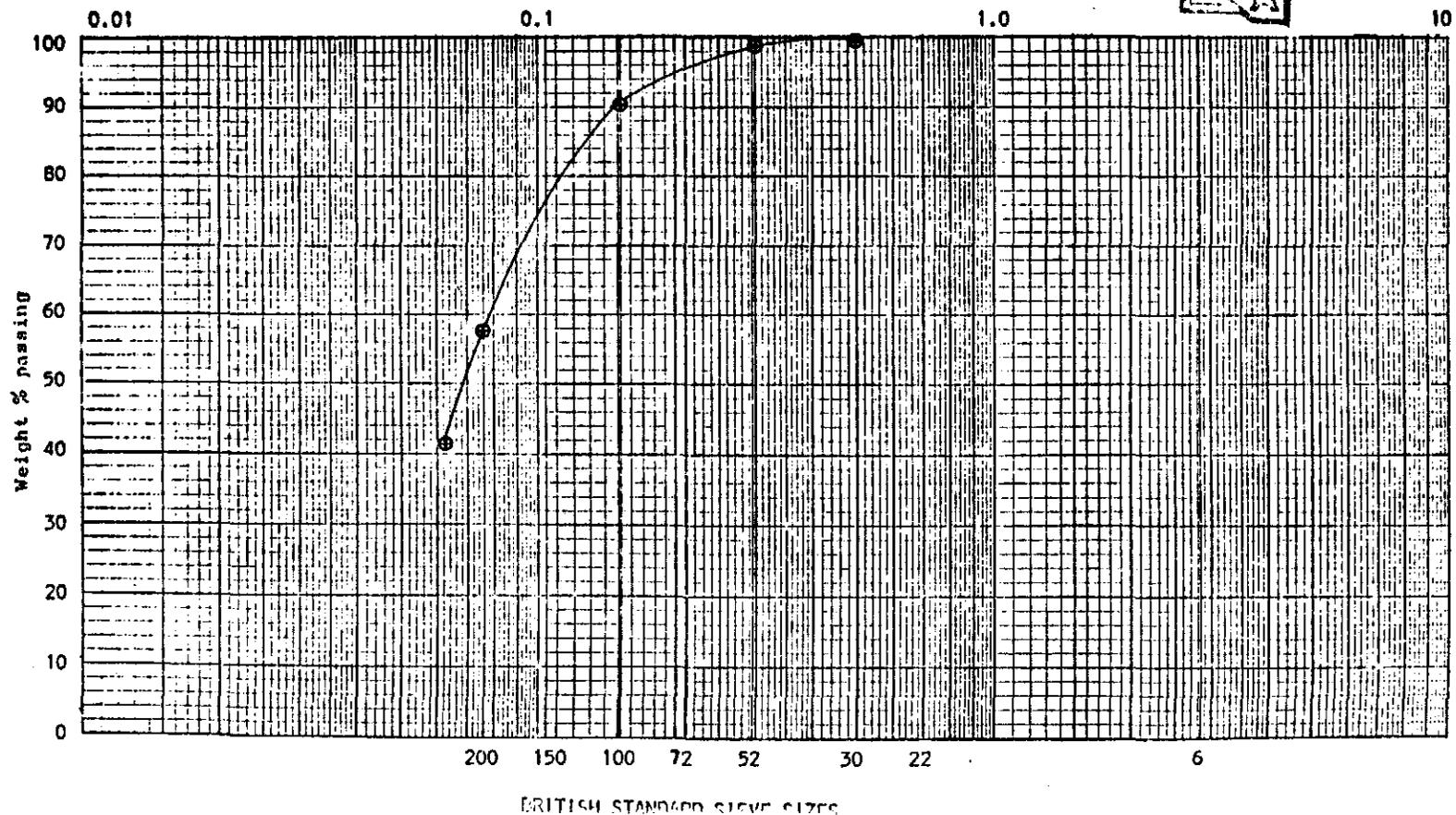
041

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER 04.07-f.

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265042

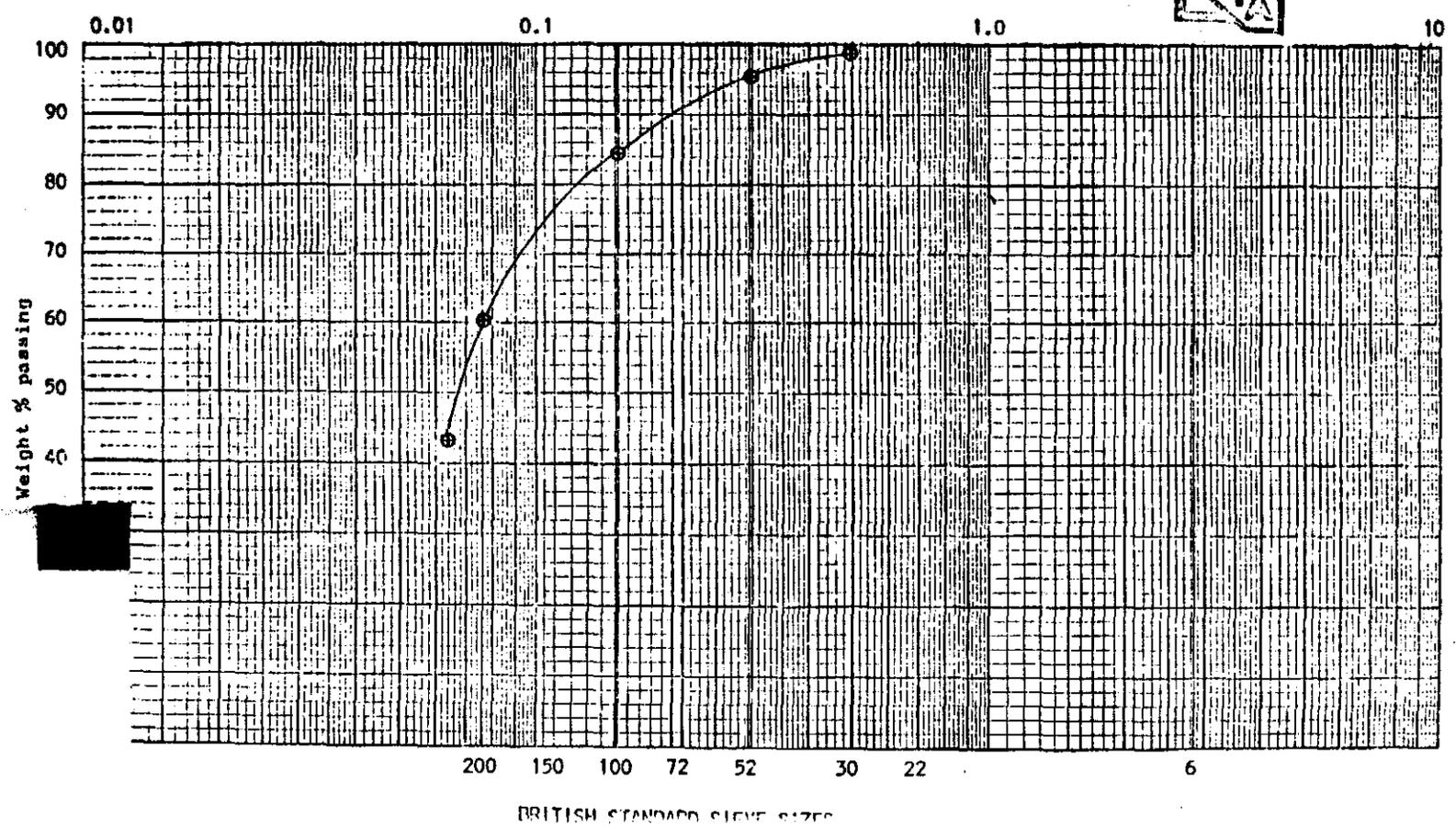
042

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER .PH. 67.5

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265043

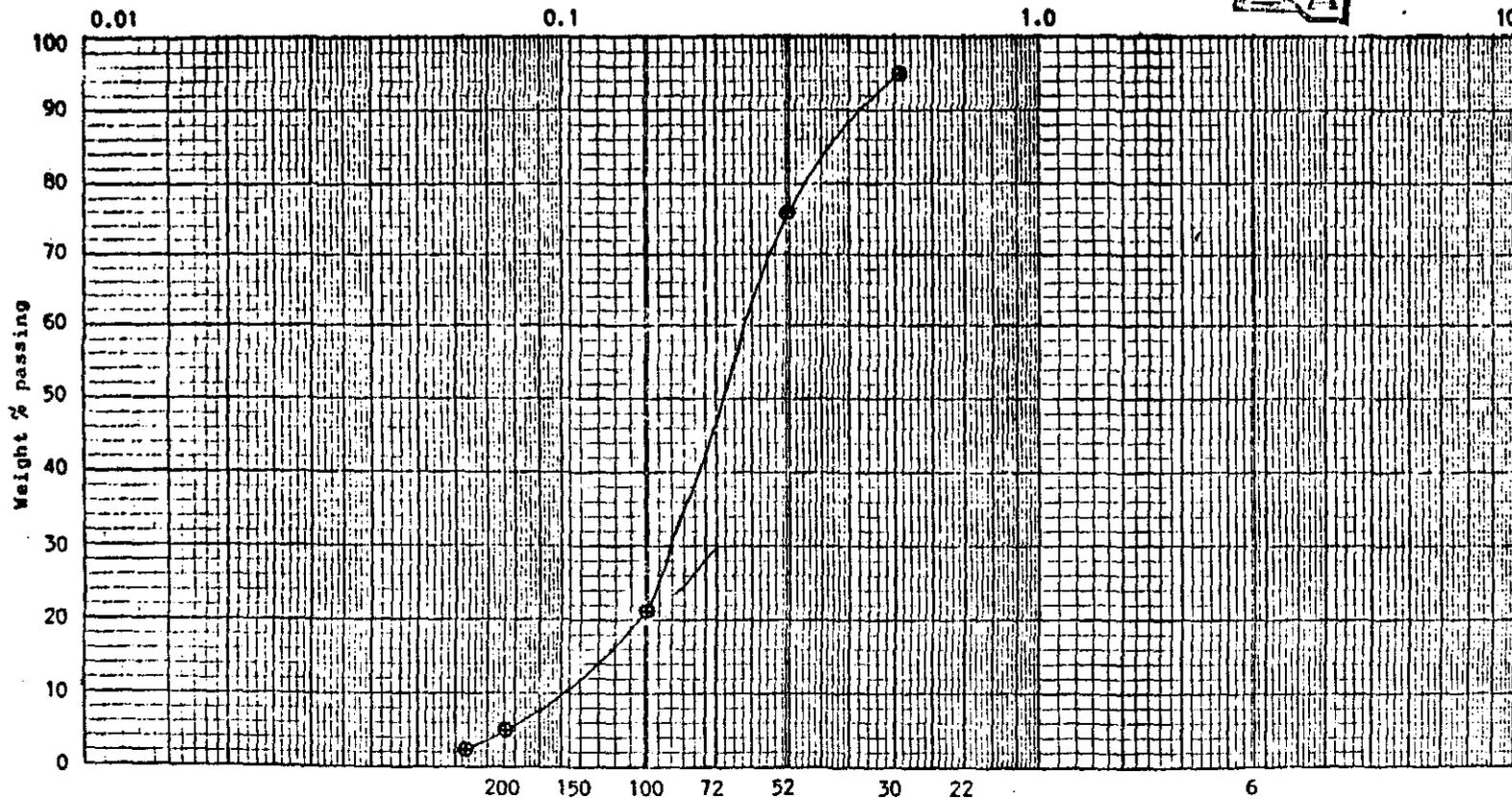
043

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER *.DH.60-1*

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265044

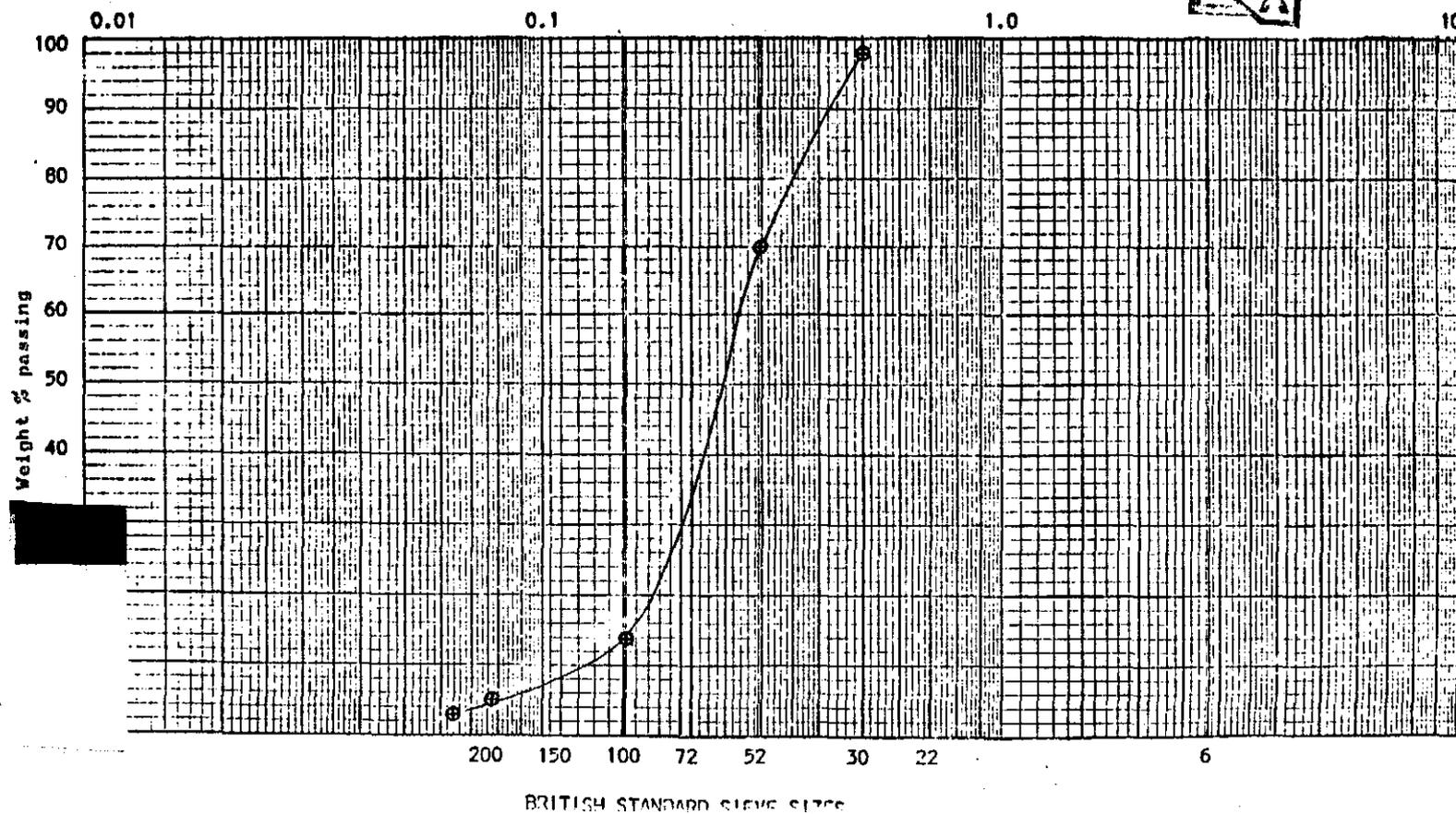
044

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER .OH.60-2

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265045

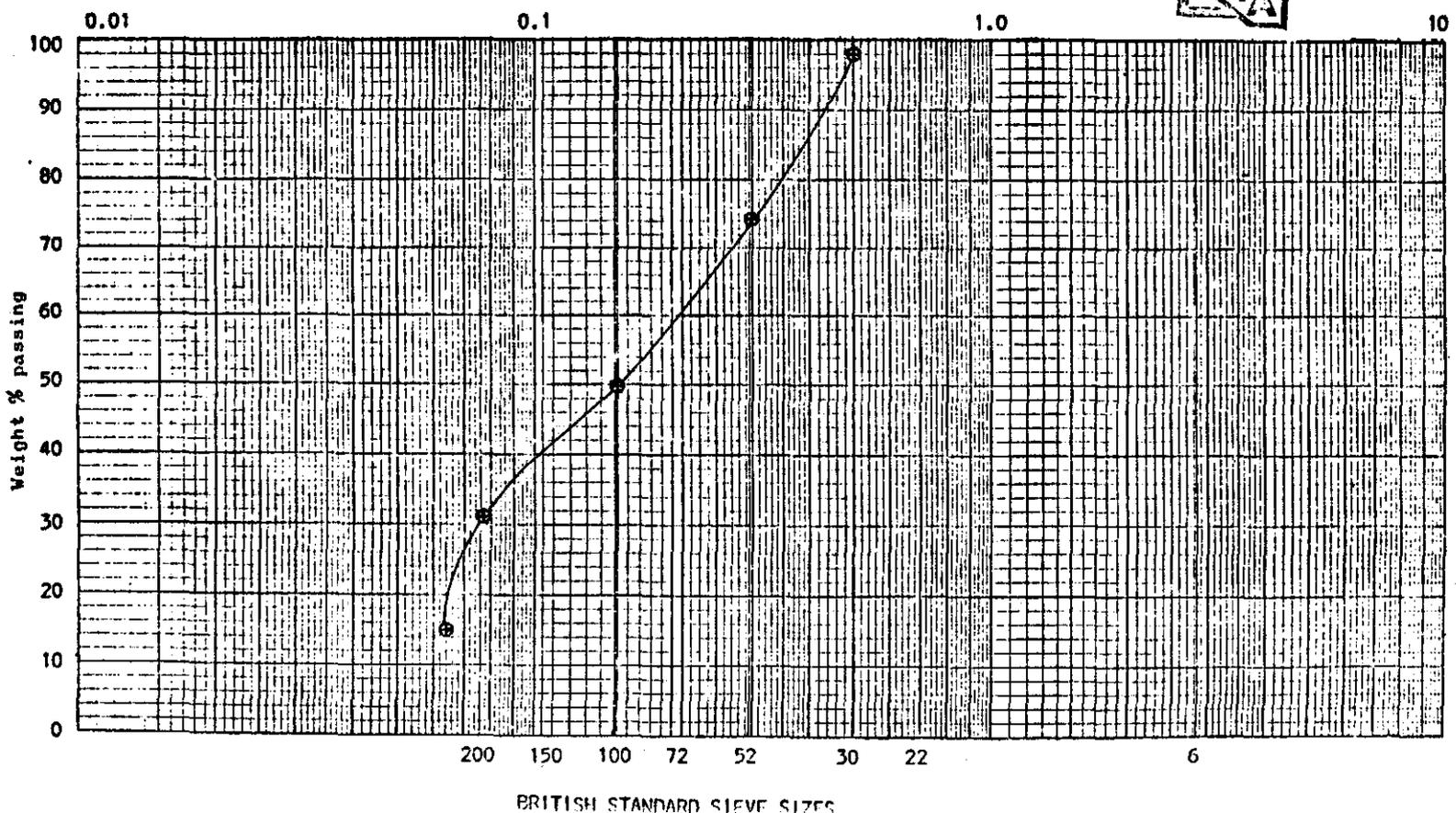
045

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER *DH. 68-3*

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265046

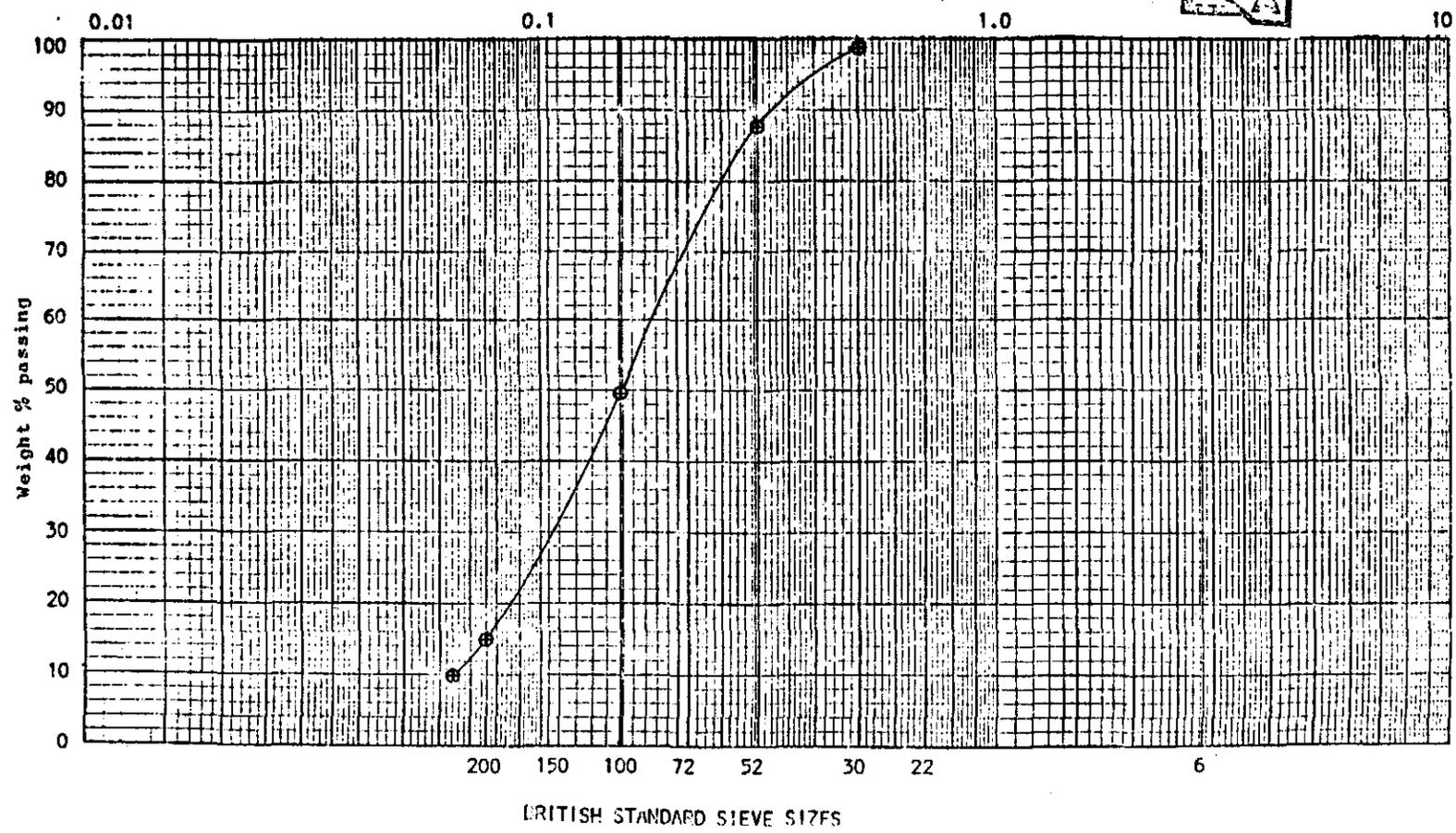
046

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER CH. 69-1..

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



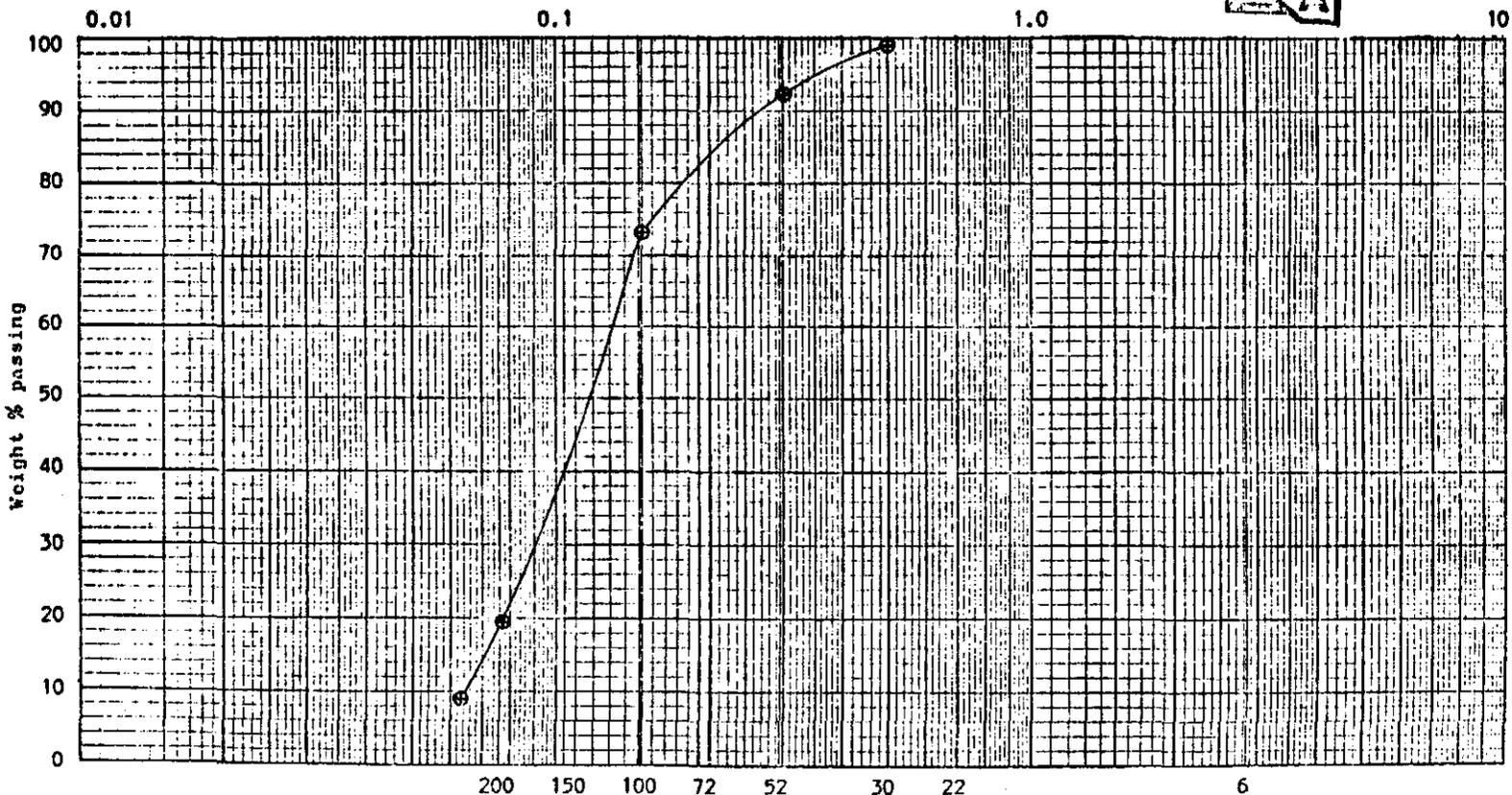
265047

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER .04.69-2

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



BRITISH STANDARD SIEVE SIZES

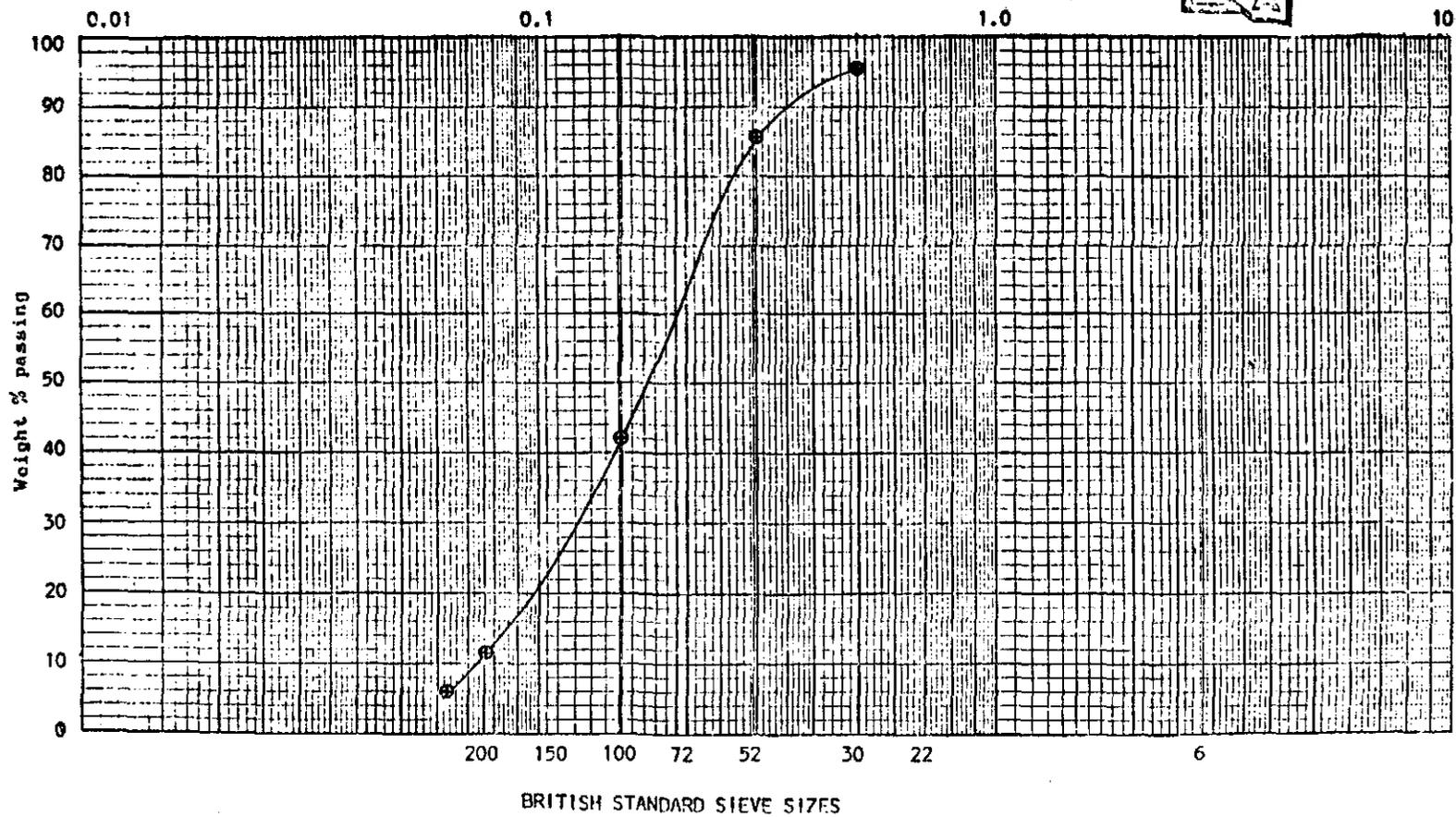
048

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER .OH.79-1.

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265049

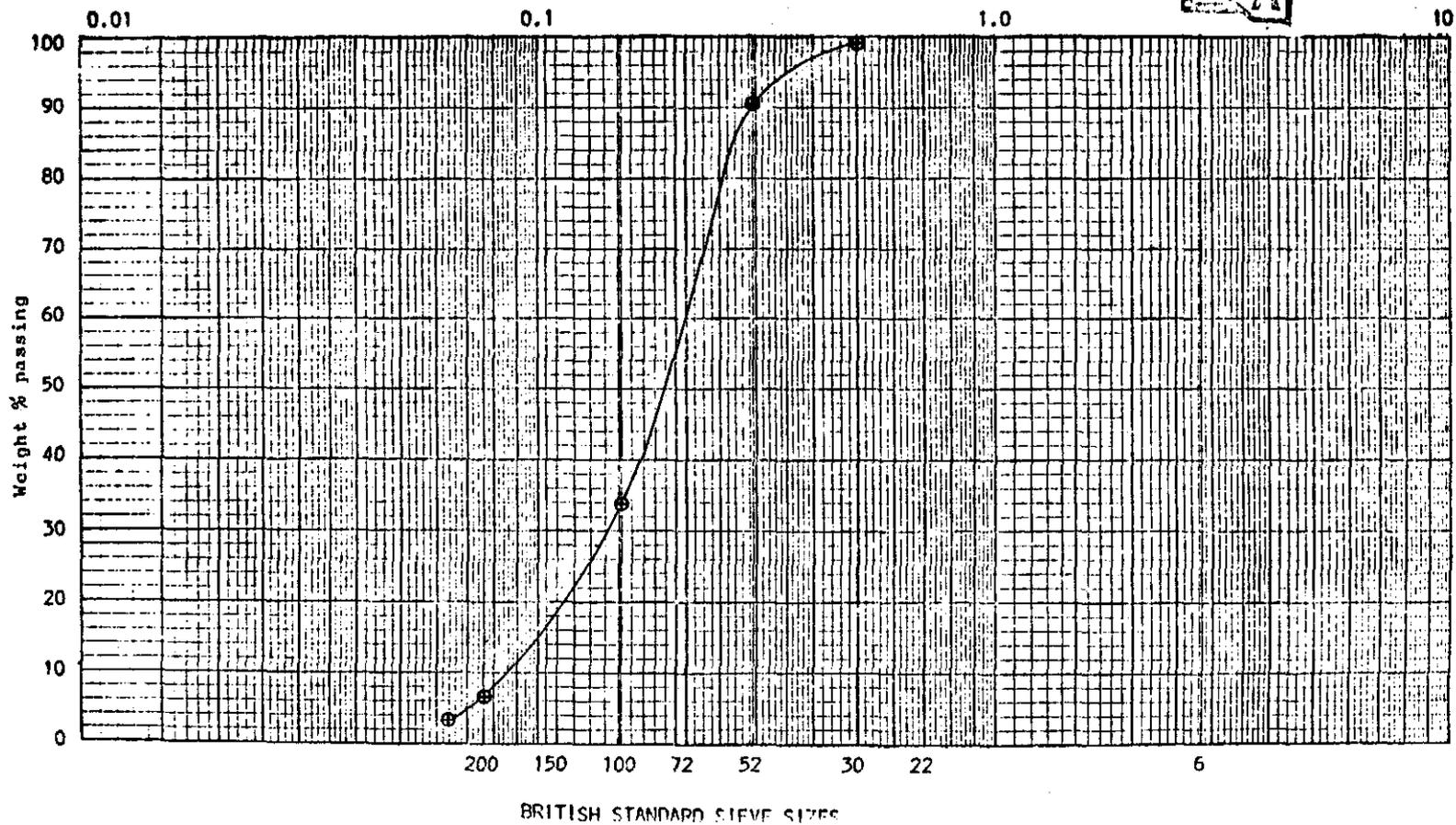
049

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER DH.79-2.

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265050

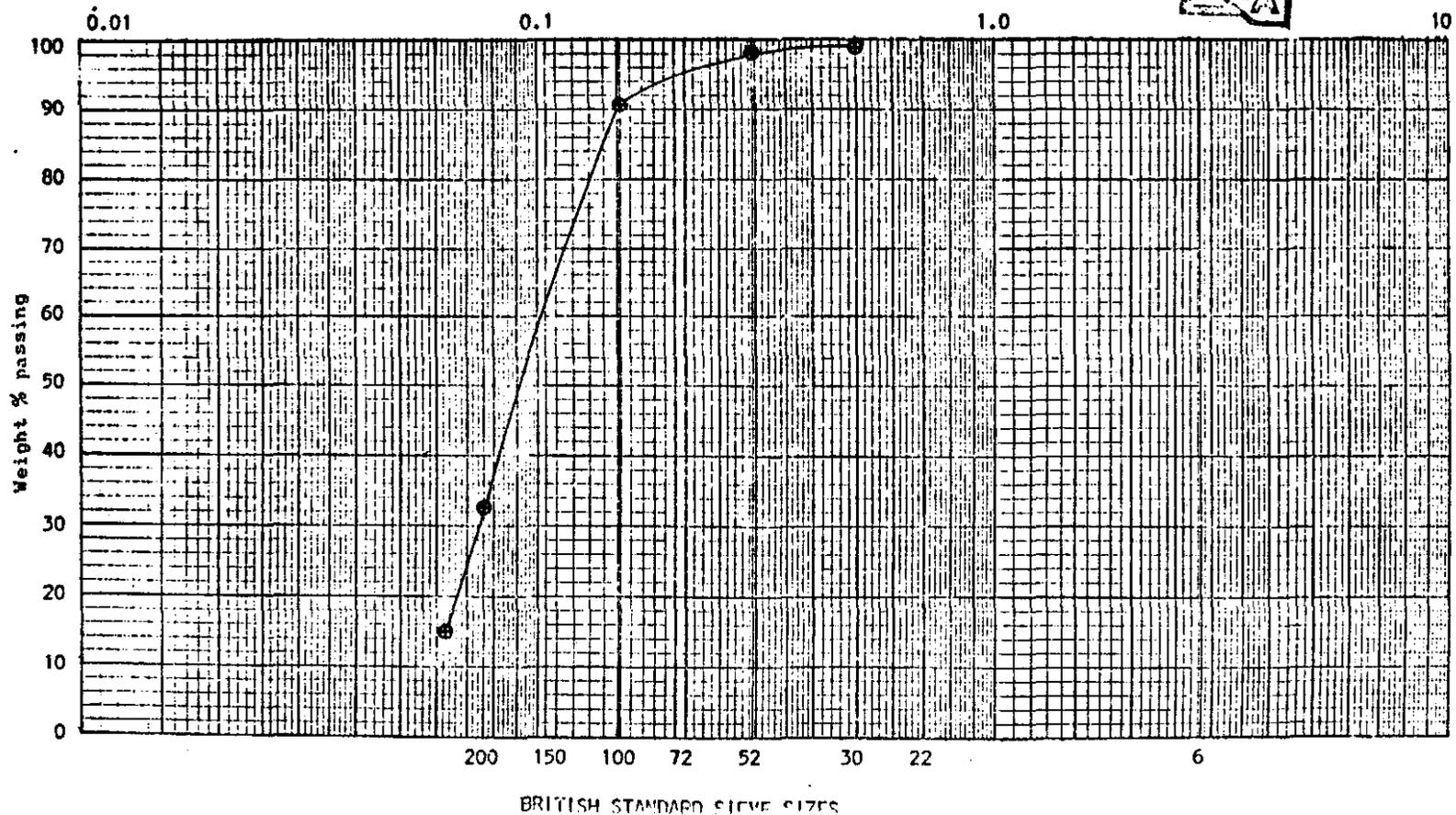
050

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER *DH..79-3*

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



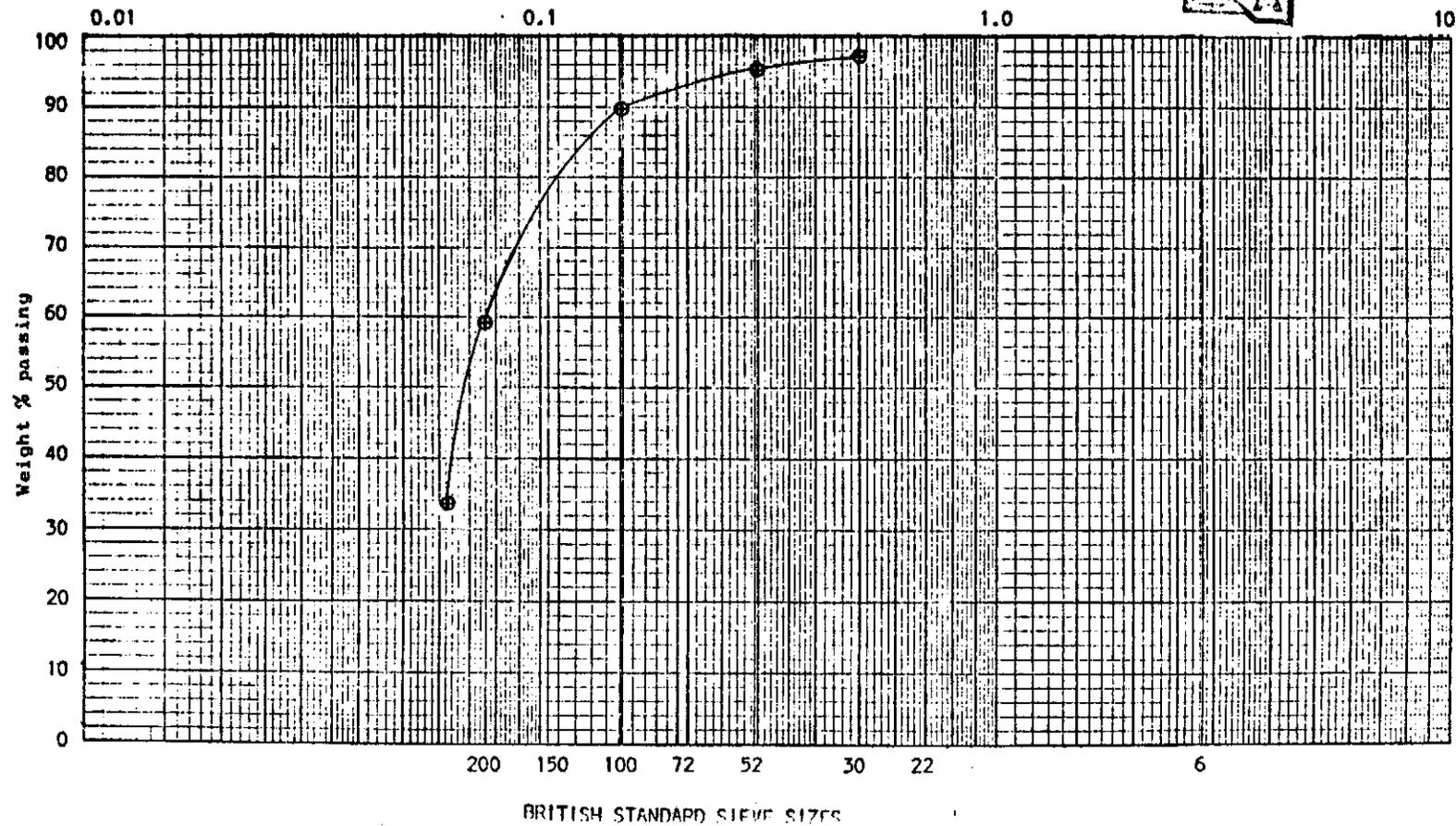
265051

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER DH.70-3A

Robertson Research (Australia) Pty. Limited

Particle Size - mm.

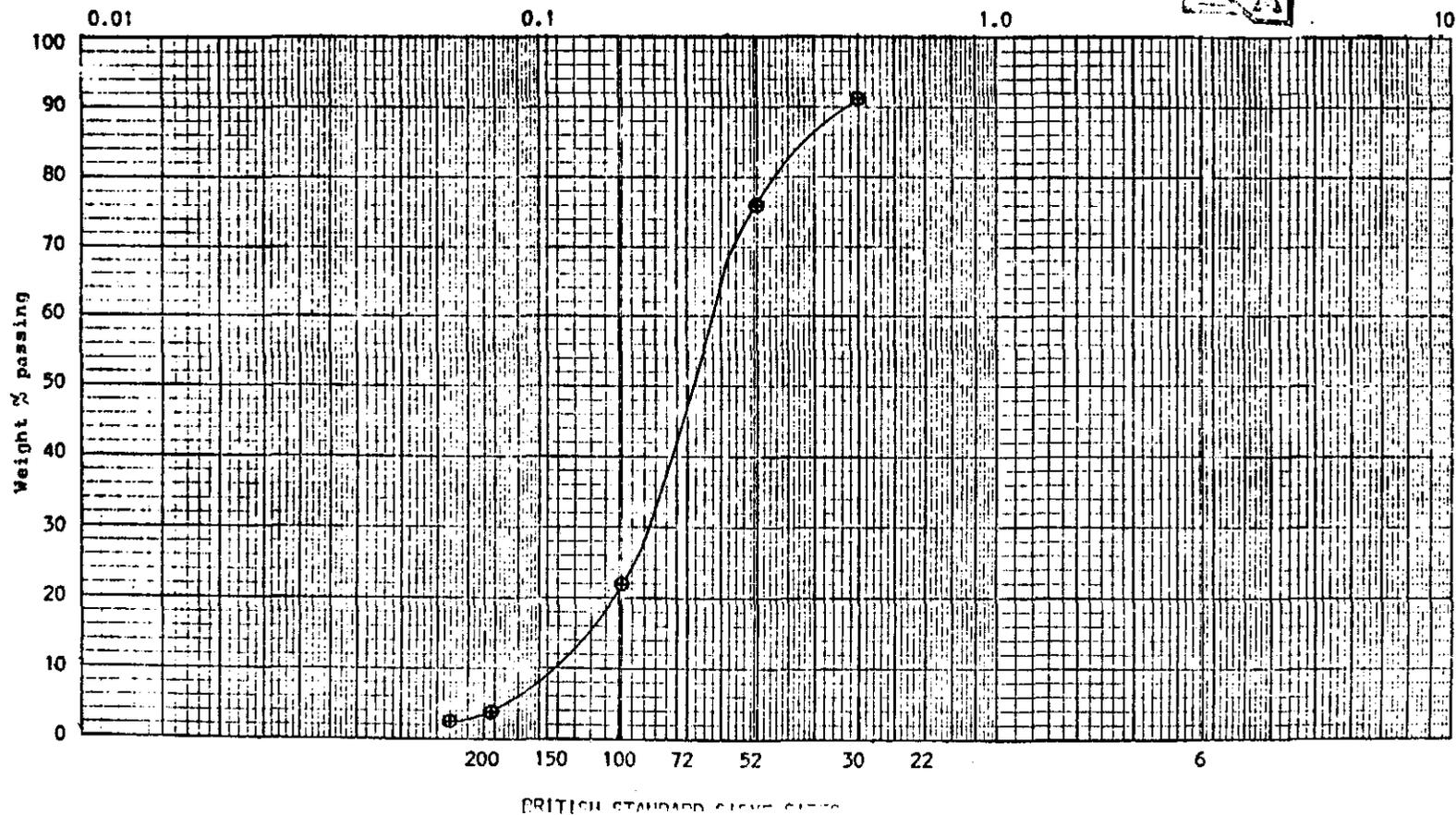


PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER DH.71-1.

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265053

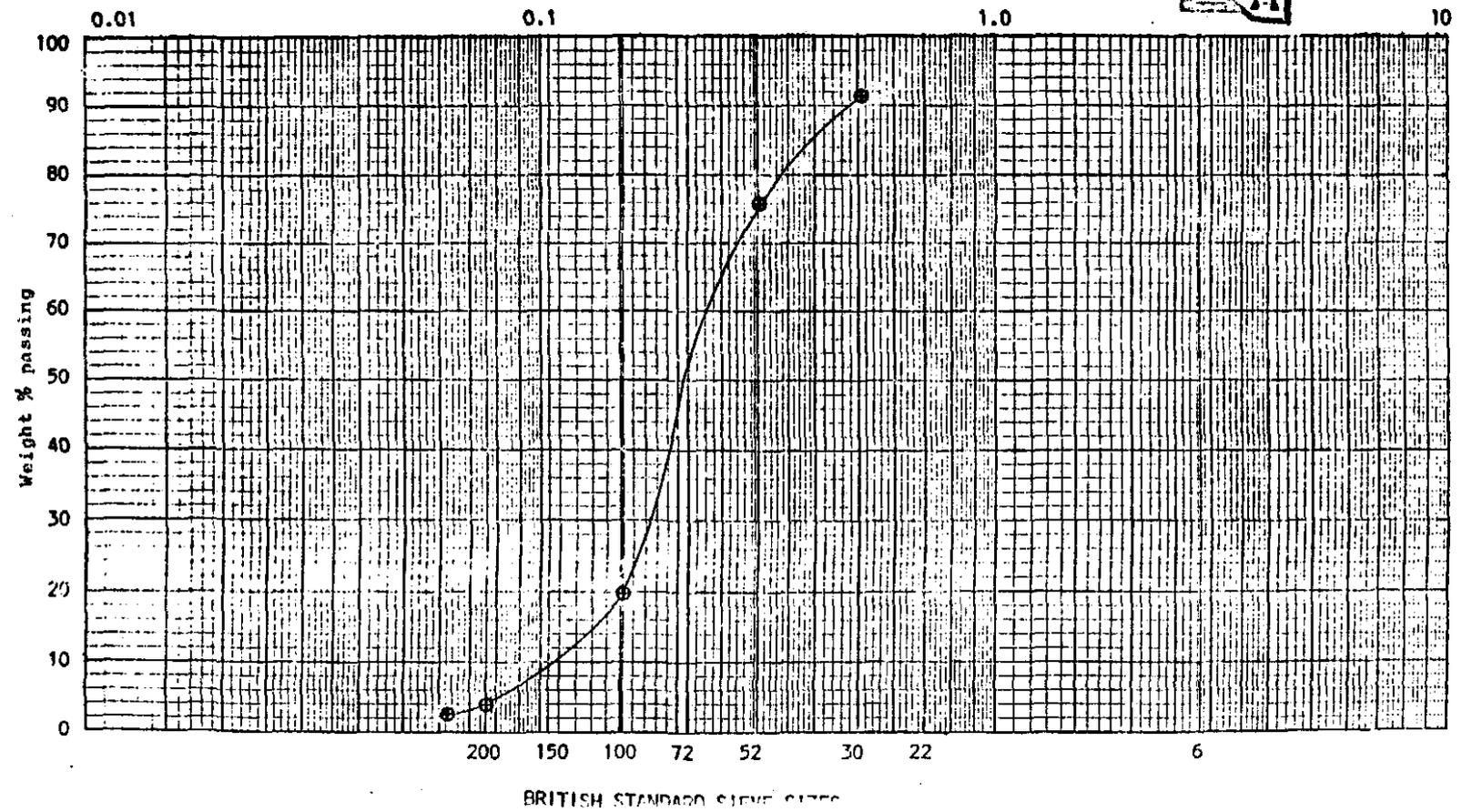
053

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER PH. 71-2

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265054

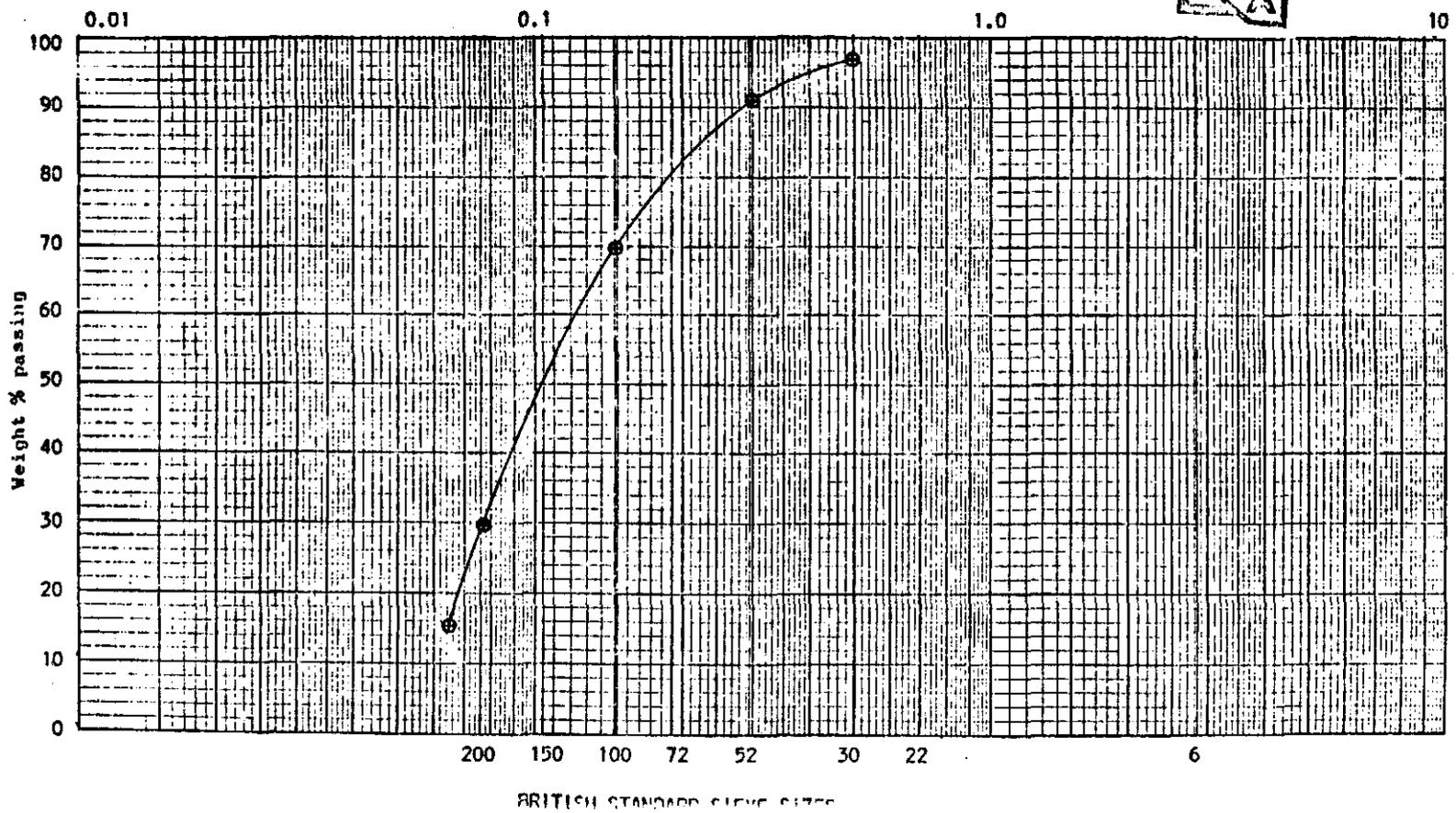
054

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER AH..71-3

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



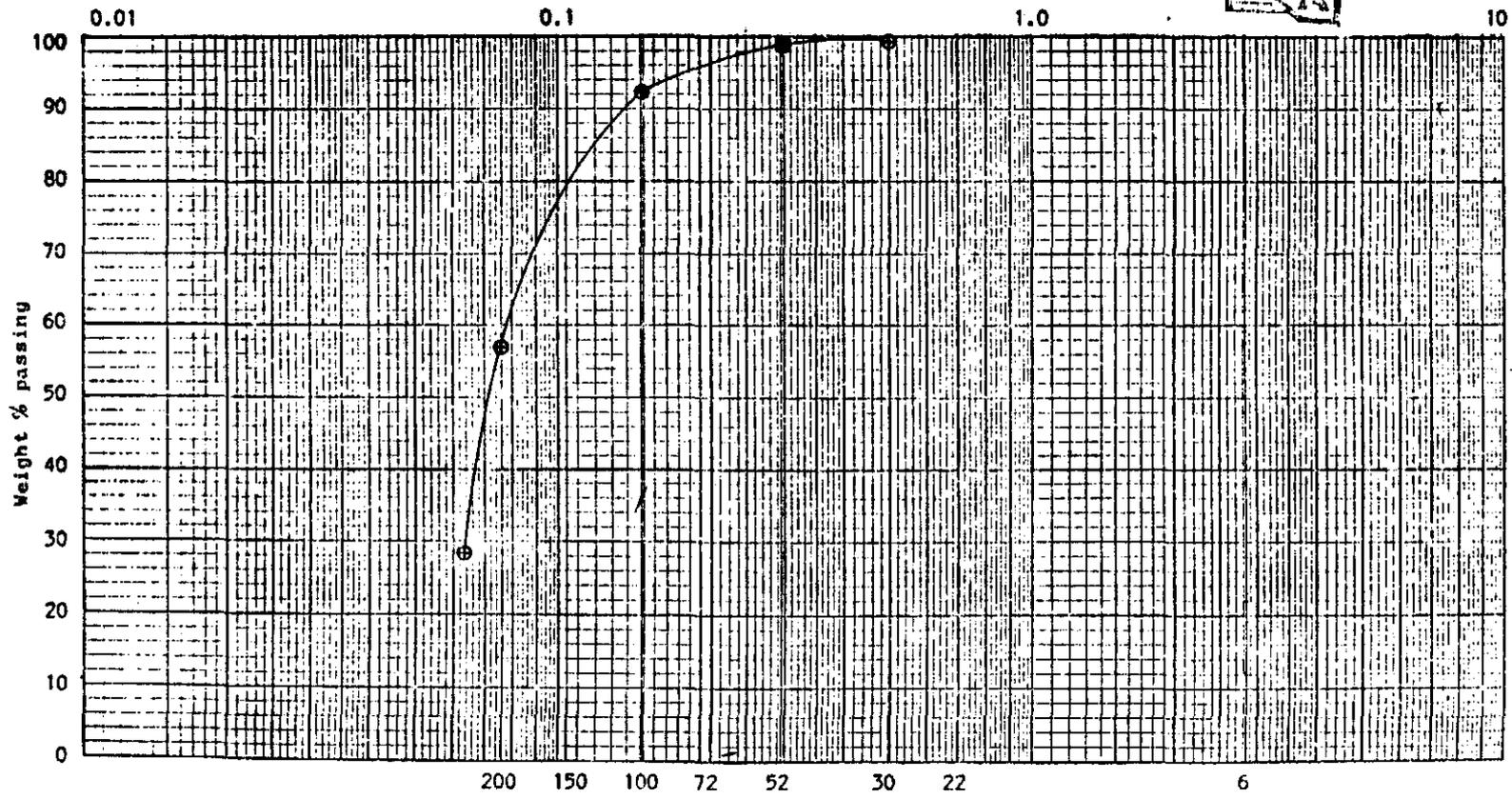
265055

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER DH. 71-4

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



BRITISH STANDARD CLASSIFICATION

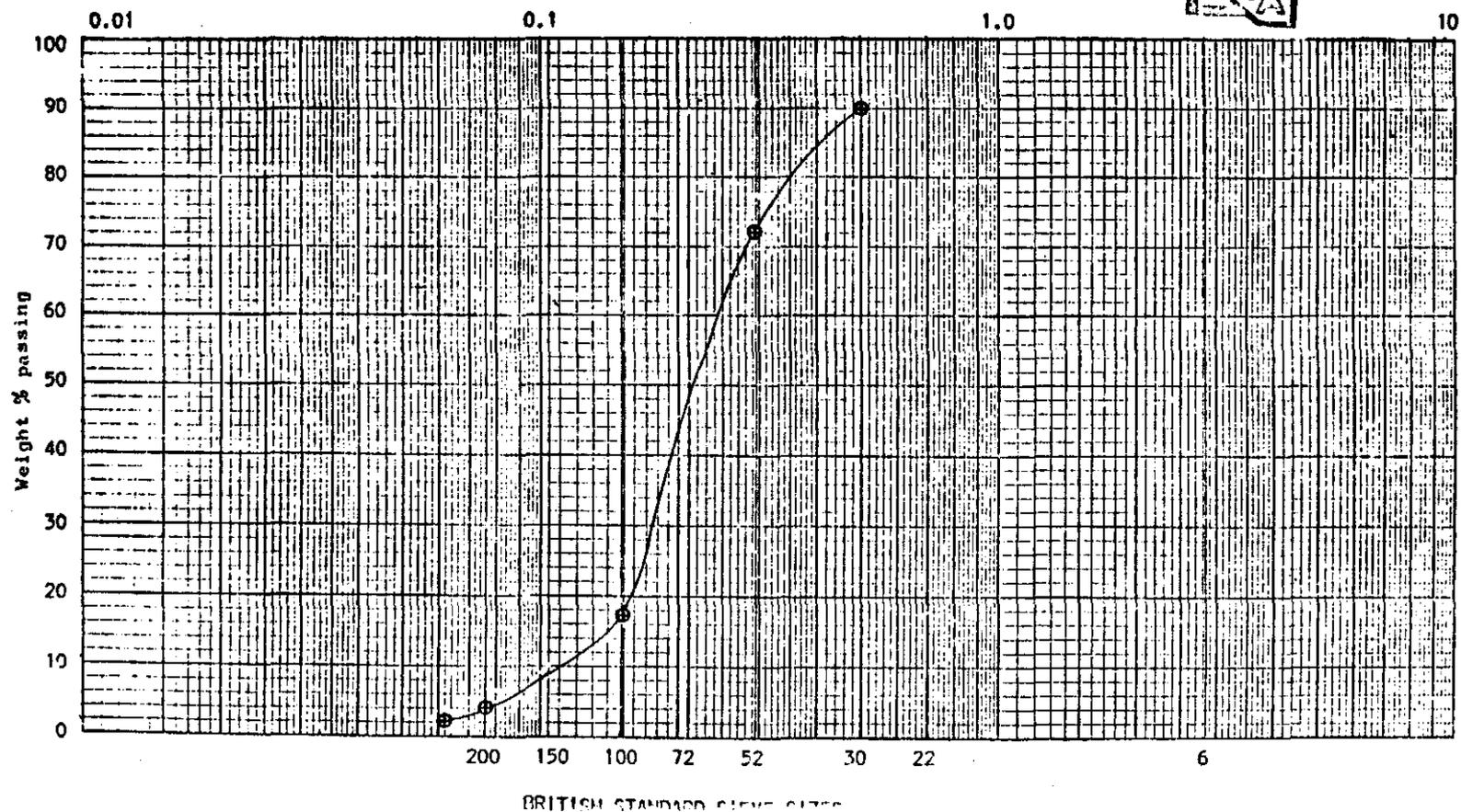
056

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER .DH.72-1

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265057

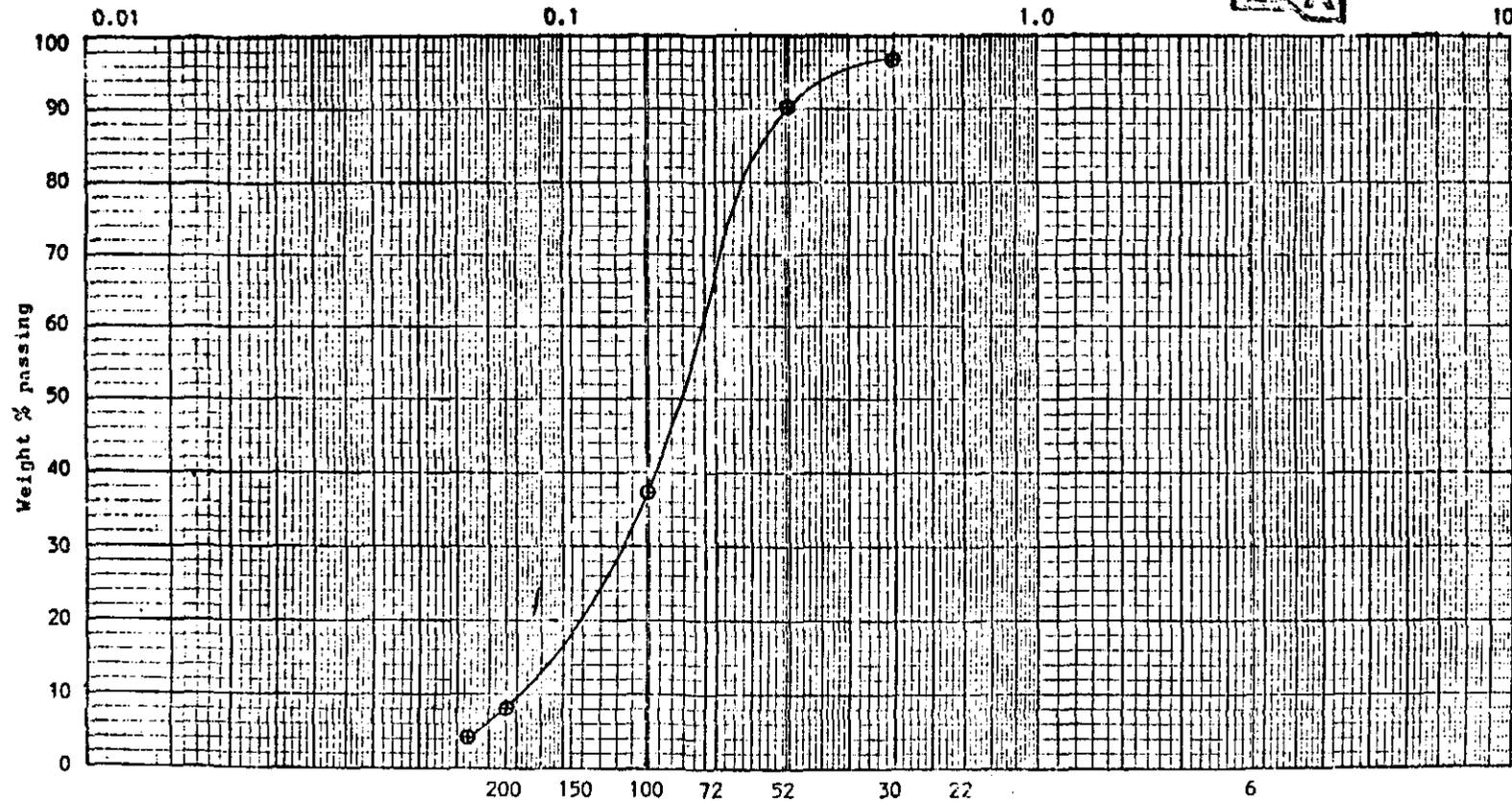
057

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER DH.72-2.

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



BRITISH STANDARD CLASSIFICATION

265058

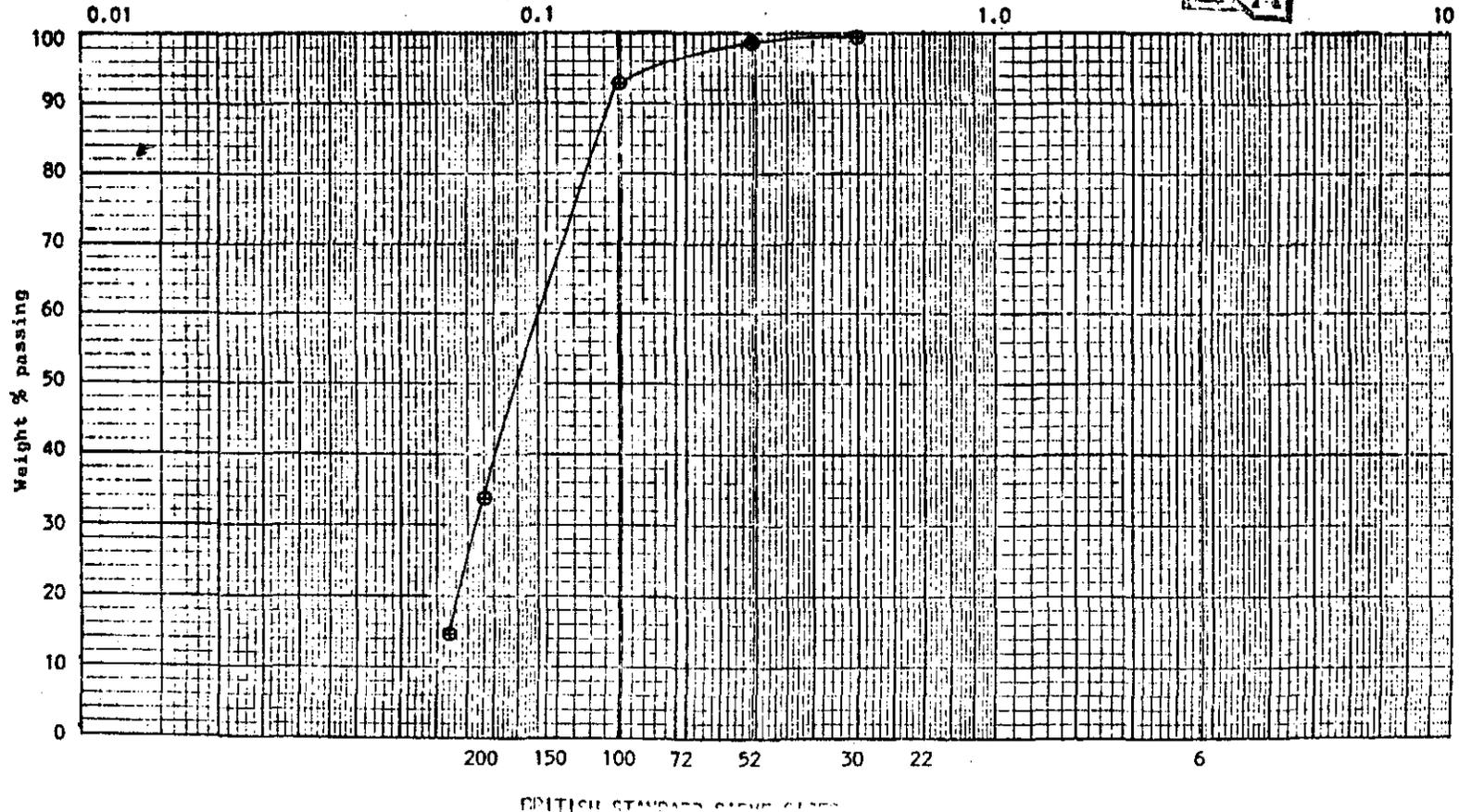
058

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER PH. 7A-3

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



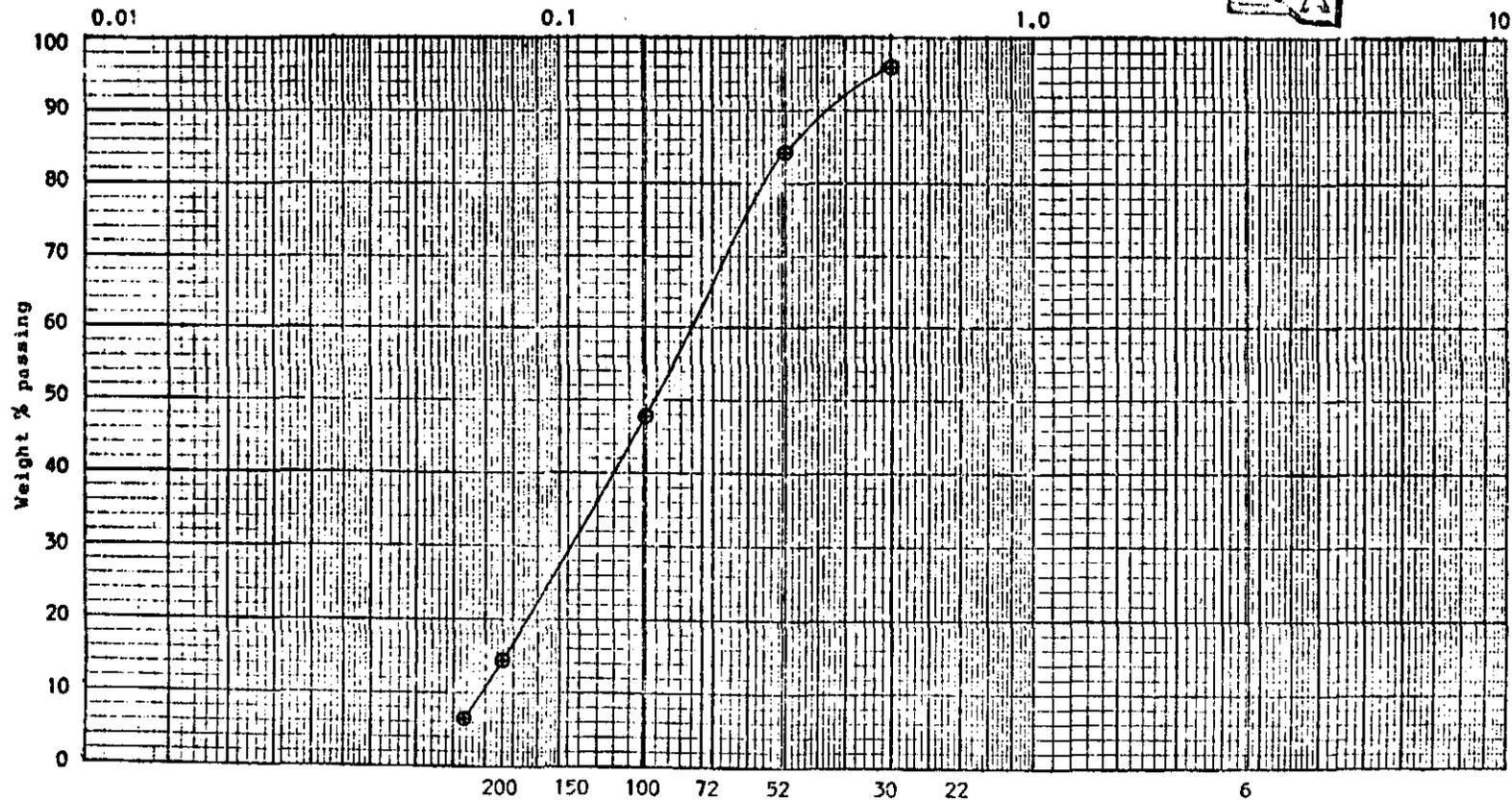
265059

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER DH.73-1

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



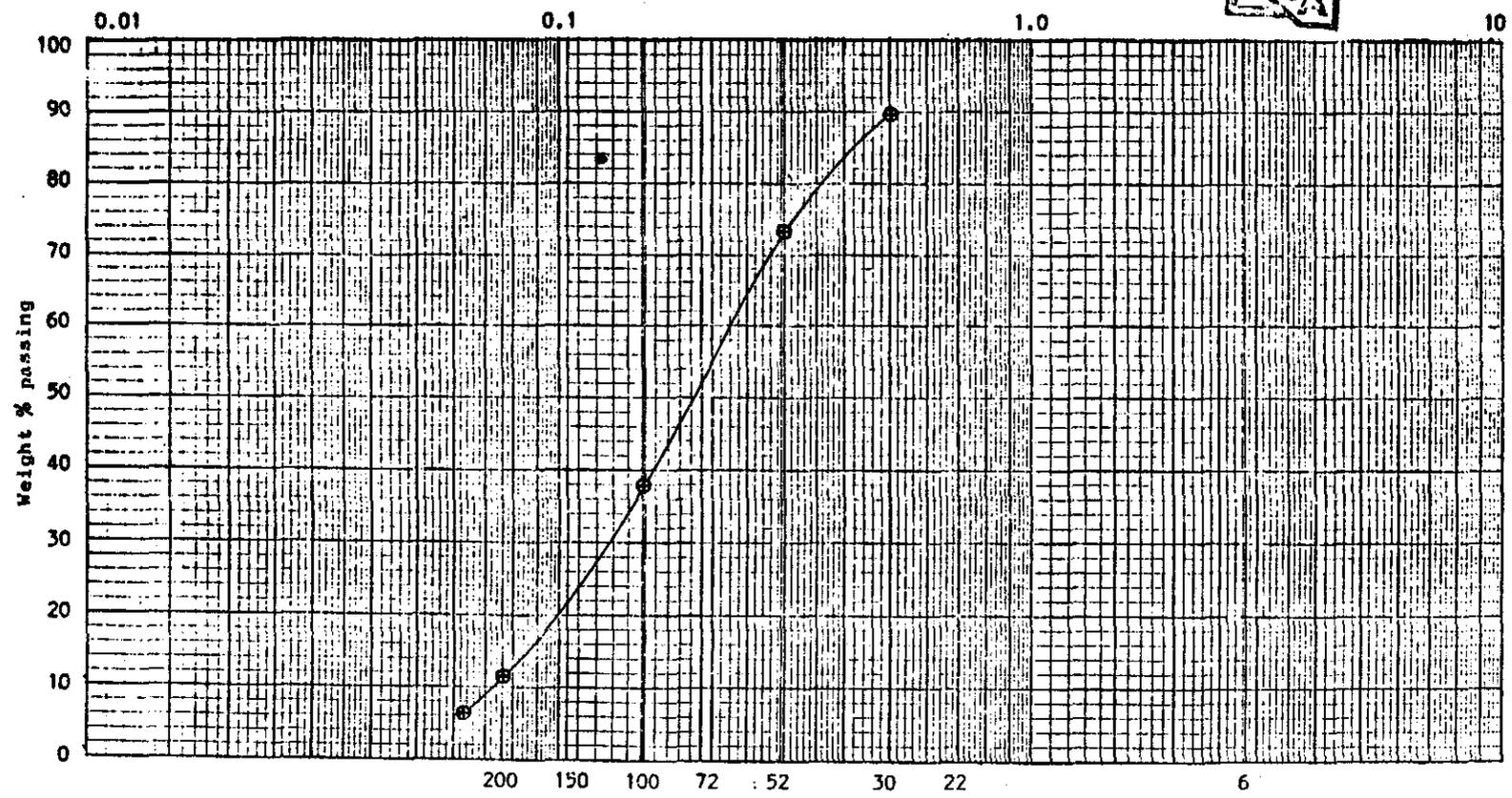
BRITISH STANDARD CURVE SIZE

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER .OH.73-2

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



BRITISH STANDARD SPECIFICATION

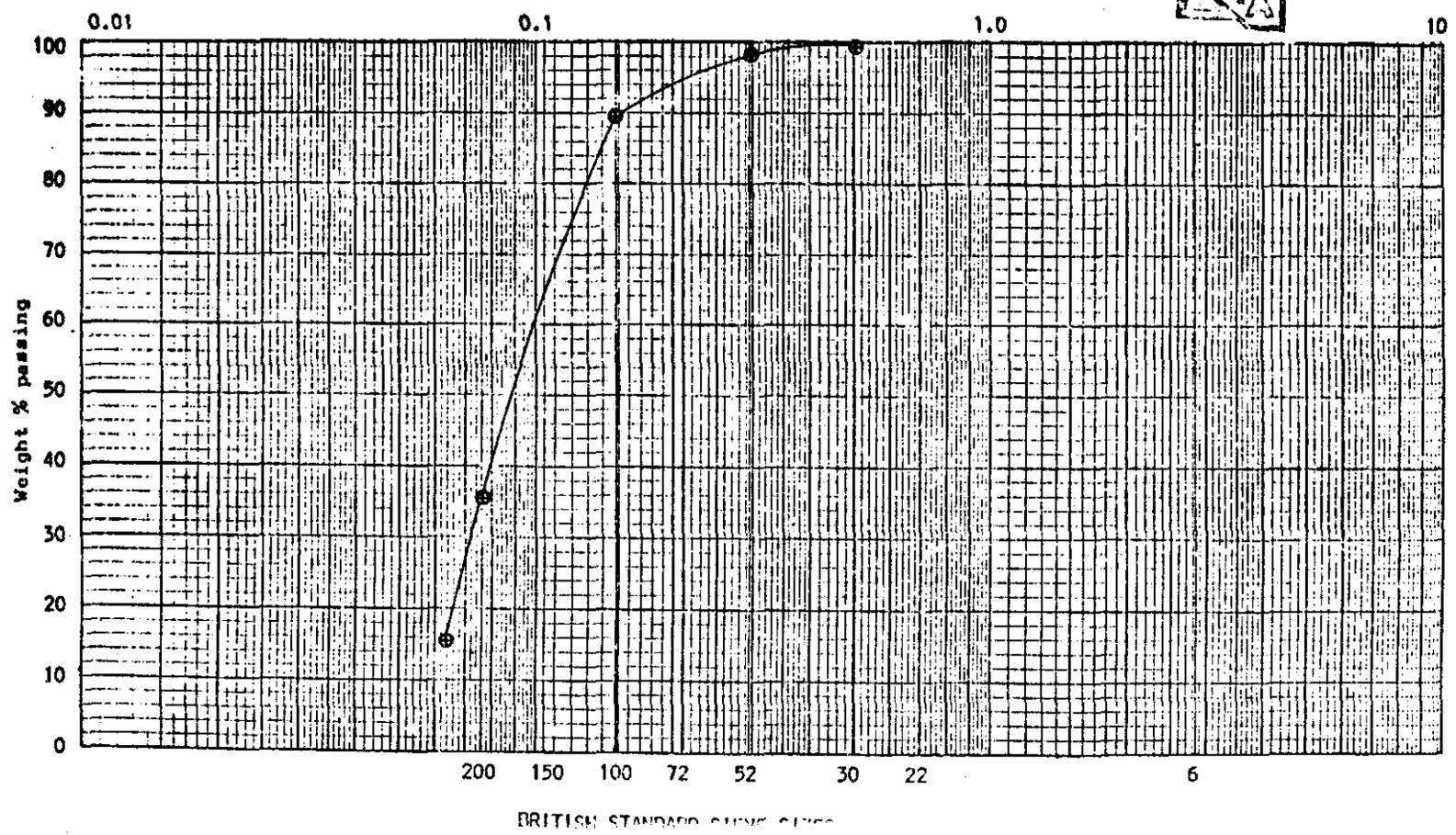
061

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER DH. 73-3

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



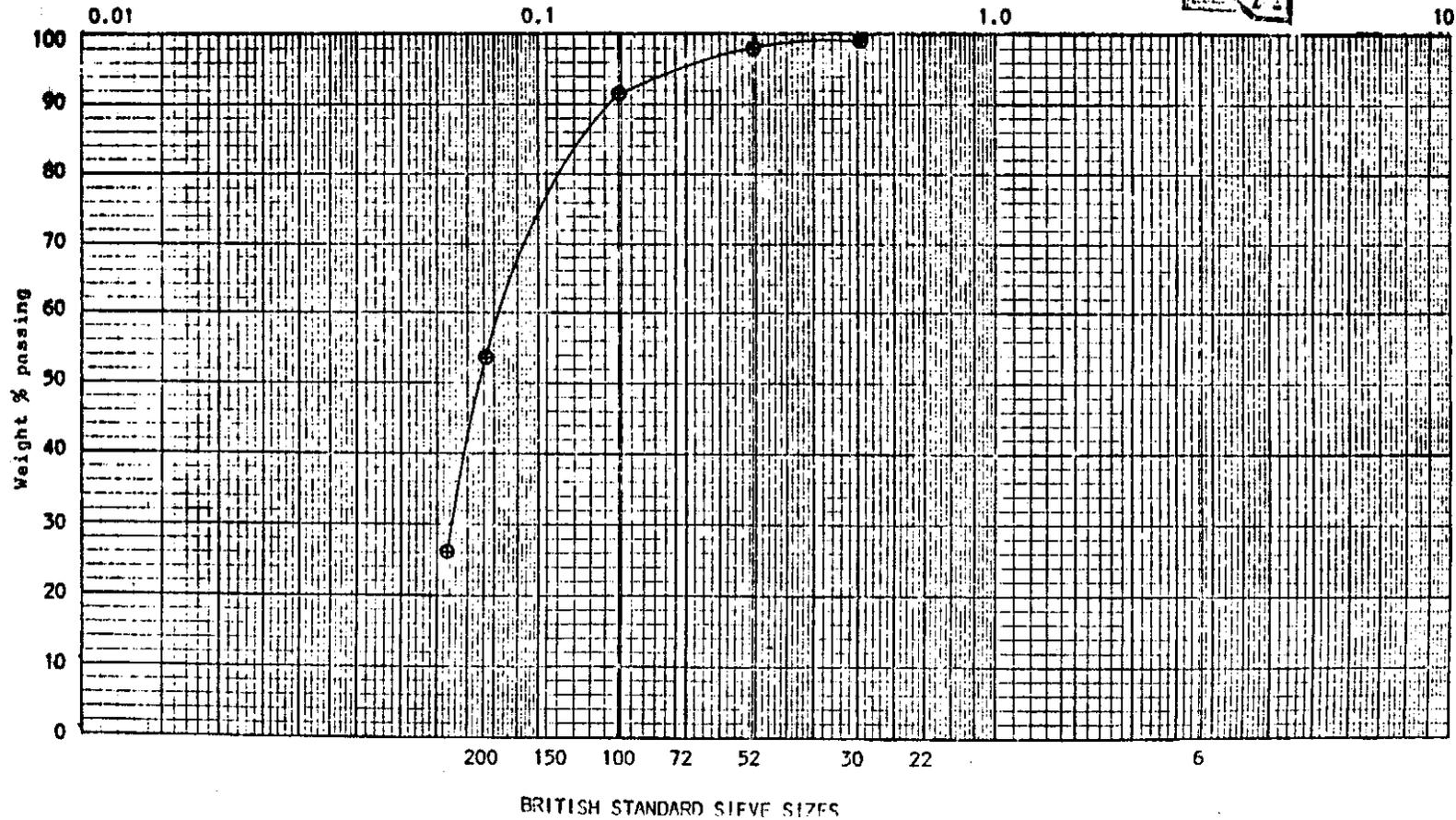
265062

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER .04.73-1

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



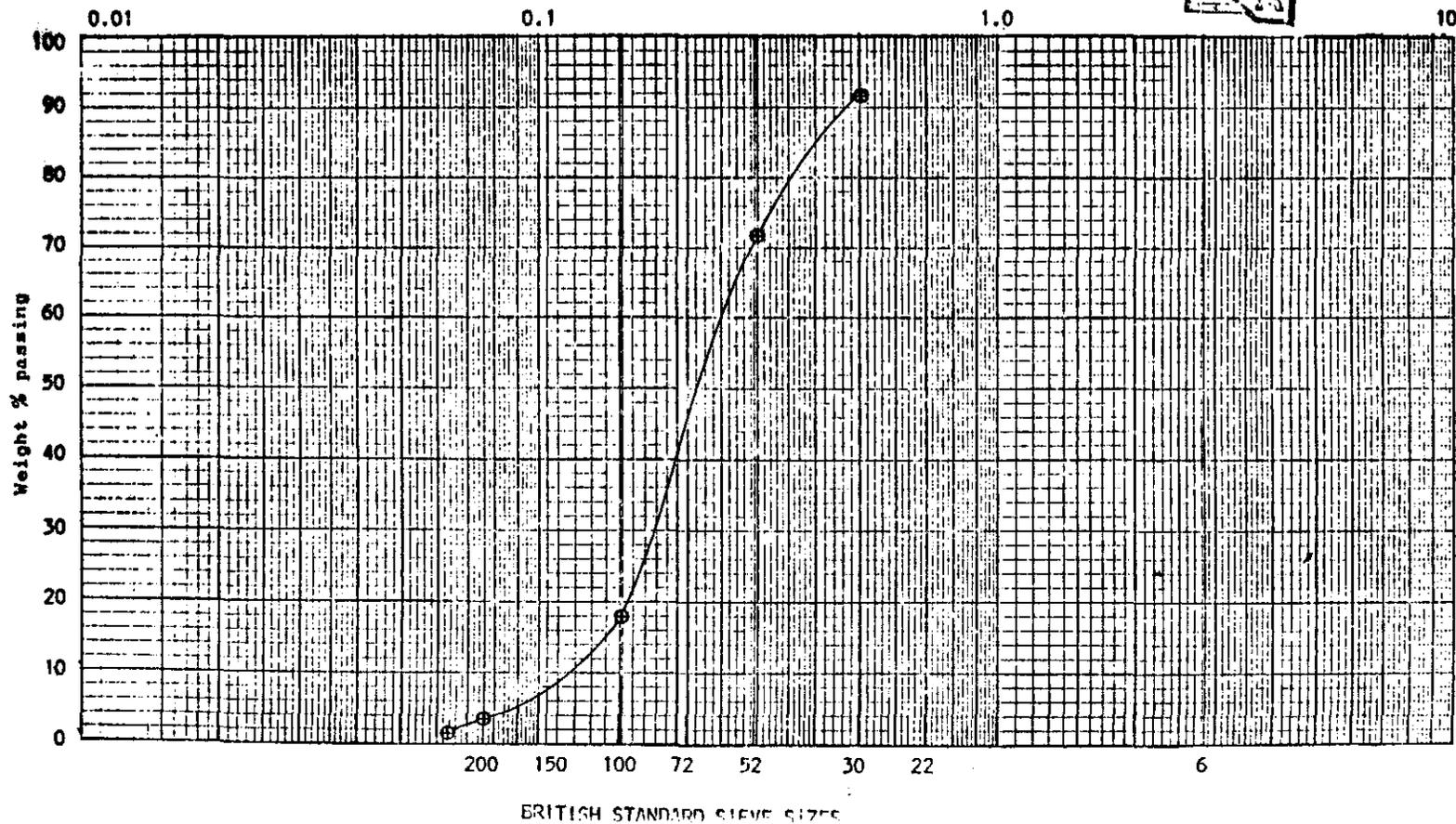
083

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER *RH...74-1*

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265064

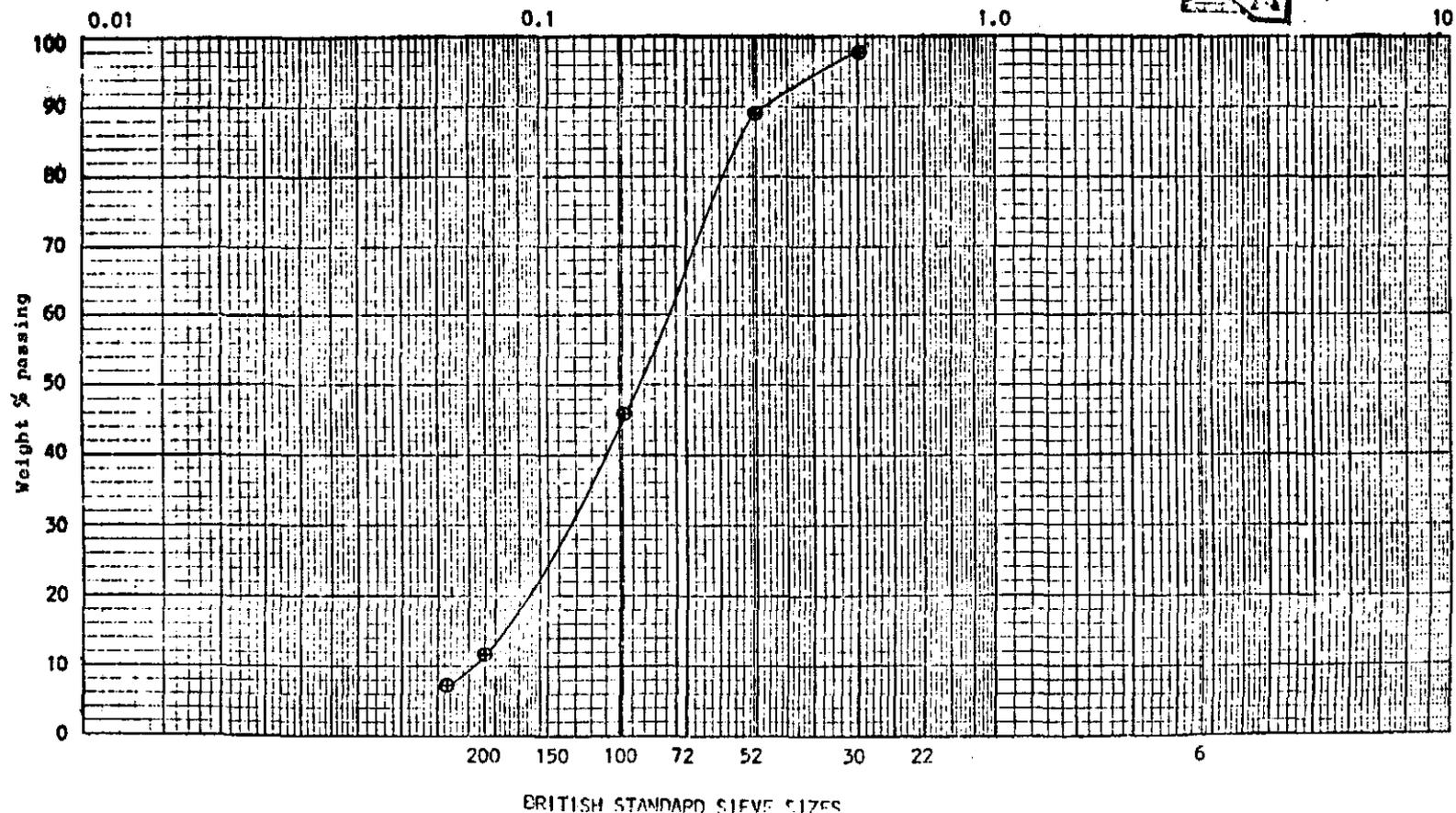
084

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER DH.74-2.

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265065

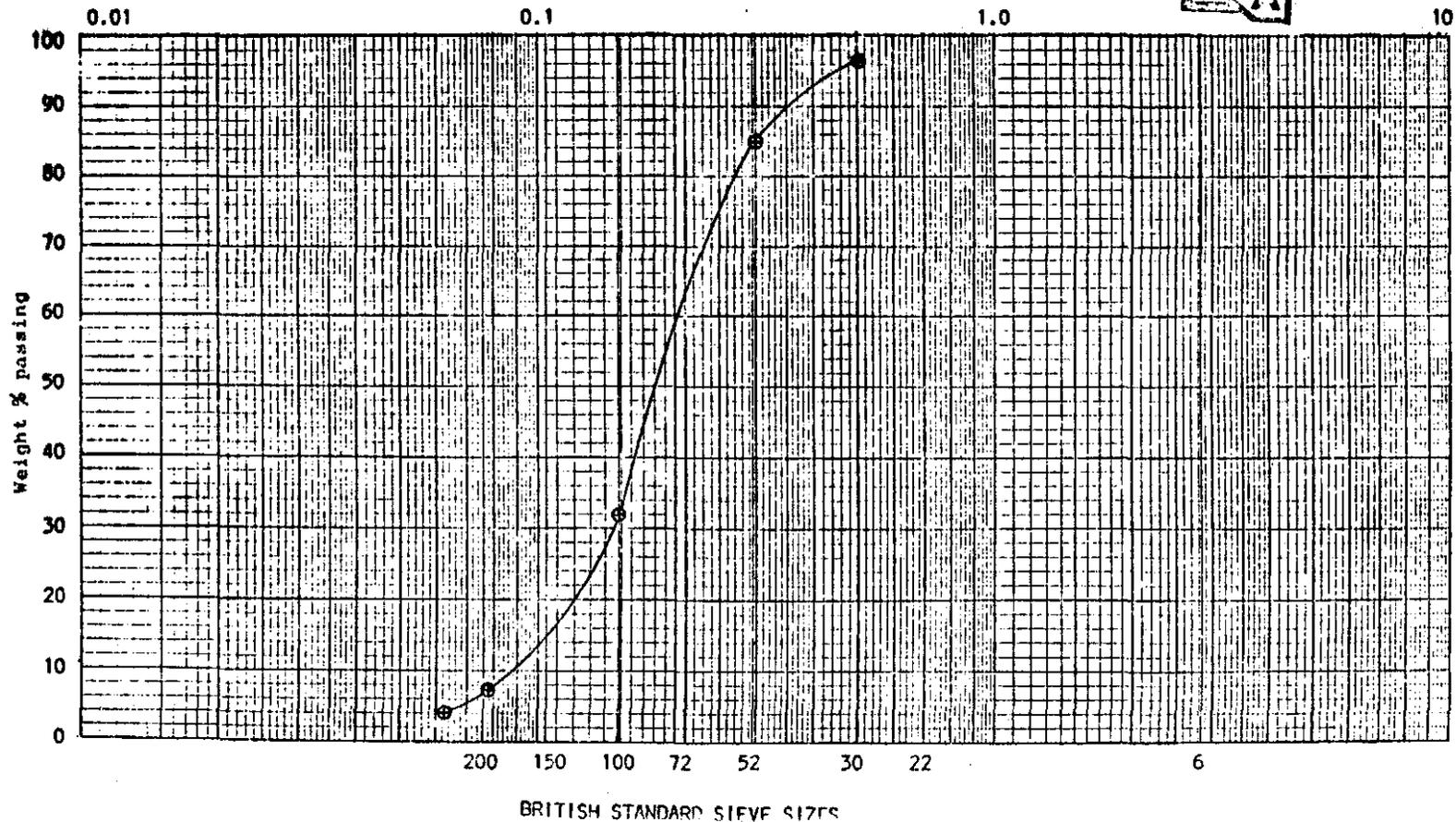
065

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER OH.7A-3

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265066

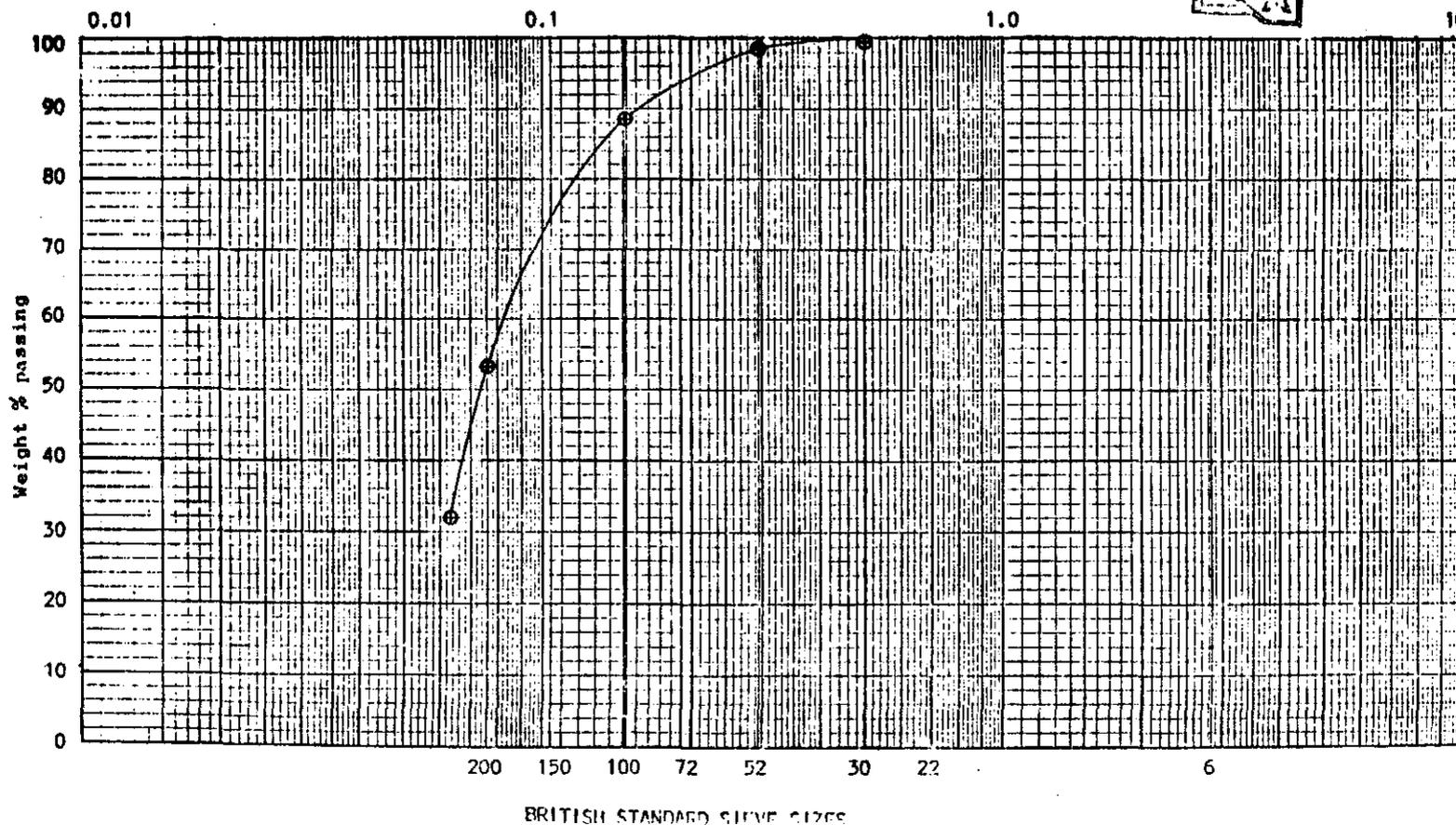
066

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER *DH...7A-A*

Robertson Research (Australia) Pty. Limited

Particle Size - mm.



265067

PARTICLE SIZE DISTRIBUTION CHART

SAMPLE NUMBER *.OH.74-5.*

Robertson Research (Australia) Pty. Limited

Particle Size - mm.

